

TC-RX55/RX55ES/RX410

SERVICE MANUAL

US Model

TC-RX55ES/RX410

Canadian Model

TC-RX55/RX410

AEP Model

UK Model

E Model

TC-RX55



Photo: TC-RX410

SPECIFICATIONS

Recording system

4-track 2-channel stereo

Fast winding

Approx. 90 sec. (with C-60 cassette)

Bias

AC Bias

Signal-to-noise ratio (NAB, at peak level)

DOLBY NR switch	OFF	B-TYPE ON	C-TYPE ON
Cassette			
TYPE IV (Sony METAL-ES)	58 dB	65 dB	71 dB
TYPE II (Sony UX-S)	57 dB	64 dB	70 dB
TYPE I (Sony HF-S)	54 dB	61 dB	67 dB

Total harmonic distortion

1.0 % (with Sony METAL-ES cassettes)

Frequency response

DOLBY NR OFF
TC-RX410:

- With TYPE IV cassette (Sony METAL-ES)
30–15,000 Hz (± 3 dB)
30–13,000 Hz (± 3 dB, OVU recording)
- With TYPE II cassette (Sony UX-S)
30–15,000 Hz (± 3 dB)
- With TYPE I cassette (Sony HF-S)
30–14,000 Hz (± 3 dB)

TC-RX55/RX55ES:

- With TYPE IV cassette (Sony METAL-ES)
20–20,000 Hz (± 3 dB)
30–15,000 Hz (± 3 dB, OVU recording)
- With TYPE II cassette (Sony UX-S)
30–17,000 Hz (± 3 dB)
- With TYPE I cassette (Sony HF-S)
30–15,000 Hz (± 3 dB)

Model Name Using Similar Mechanism	TC-RX50/RX50ES TC-RX400
Tape Transport Mechanism Type	TCM-170RB11 (TC-RX55/RX55ES) TCM-170RB13 (TC-RX410)

Wow and flutter Inputs

0.09% WRMS (NAB)

Microphone inputs (phone jack)

Sensitivity 0.25 mV (-70 dB)

For a low-impedance microphone

Line inputs (phono jacks)

Sensitivity 77.5 mV (-20 dB)

Input impedance 50k ohms

Outputs

Line outputs (phono jacks)

Output level 0.44 V (-5 dB) at load

impedance 47k ohms

Load impedance over 10k ohms

Headphones output (stereo phone jack)

Output level -28 dB at load impedance

8 ohms

— Continued on next page —



STEREO CASSETTE DECK
SONY

TC-RX55/RX55ES/RX410

General

Power requirements

US, Canadian, E2 model: 120 V AC, 60 Hz
AEP, E3 model: 220 V AC, 50/60 Hz
UK model: 240 V AC, 50/60 Hz

Power consumption

22 W (TC-RX410)
19 W (TC-RX55/RX55ES)

Dimensions

TC-RX410:
Approx. 430 x 118 x 295 mm (w/h/d)
(17 x 4³/₄ x 11⁵/₈ inches)

TC-RX55/RX55ES:
Approx. 430 x 120 x 285 mm (w/h/d)
(17 x 4³/₄ x 11¹/₄ inches)

including projecting parts and controls

Weight

Approx. 3.9 kg (8 lbs 10 oz)

Supplied accessory


Connecting cord (2)

Design and specifications are subject to change without notice.



Features

- The **Dolby HX PRO*** system to improve the linearity of the tape's high-range response during recording.
- **Cue & review and memory play functions** to provide easy access to a desired position.
- **B and C type Dolby NR*** systems to reduce tape hiss noise.
- The optional remote control unit allows various operations to be remotely controlled.


*Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

"DOLBY", the double-D symbol  and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

SAFETY-RELATED COMPONENT WARNING!!

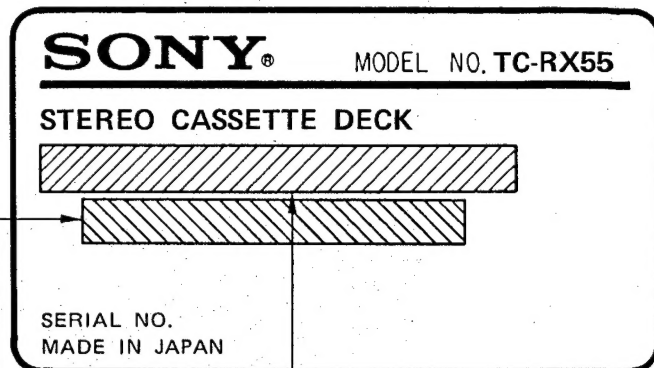
COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION (TC-RX55)

— Specification Label Printed on Back Panel —



AEP, E3 Model: AC 220 V ~ 50/60 Hz
UK Model: AC 240 V ~ 50/60 Hz
Canadian, E2 Model: AC 120 V 60 Hz 19 W

(S) (D) (N) (+S) (FI) : AE2 only

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

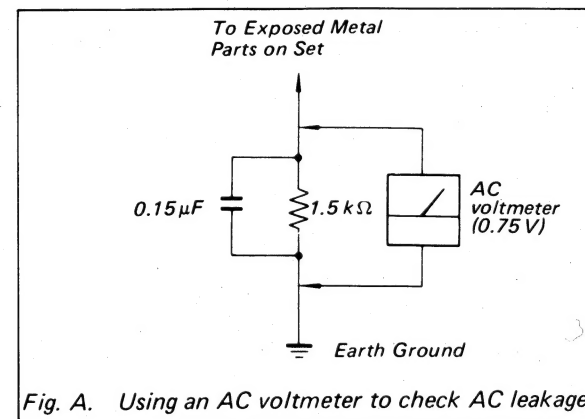
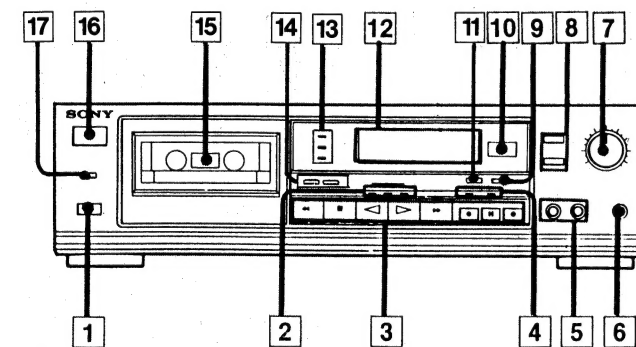


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1 GENERAL

IDENTIFICATION OF FRONT PANEL PARTS



- 1 (eject) button
- 2 DIRECTION indicators
- 3 Tape operation buttons
 - ◀ (leftward fast winding) button
 - ▶ (rightward fast winding) button
 - ▶ (forward play) button
 - ◀ (reverse play) button
 - (stop) button
 - ⏸ (pause) button
 - REC MUTE (record muting) button
 - REC (record) button
- 4 Tape transport mode indicators (REC, PAUSE)
- 5 MICROPHONE jacks (phone jacks)
- 6 HEADPHONES jack (stereo phone jack)

- 7 REC LEVEL (recording level) controls
- 8 DOLBY NR switches
- 9 DIRECTION MODE selector (TC-RX410)
MPX FILTER switch (TC-RX55/RX55ES)
- 10 Remote control sensor

You can remotely control this cassette deck with:

 - A remote commander that has an mark and comes with a Sony amplifier or receiver and which can be used to control a cassette deck.
 - An optional Sony remote commander that has an mark.
- 11 DIRECTION MODE selector (TC-RX55/RX55ES)
- 12 PEAK LEVEL METER and DIGITAL COUNTER (TC-RX55/RX55ES)
- 13 TAPE TYPE indicators (TC-RX55/RX55ES)
- 14 COUNTER RESET and MEMORY buttons (TC-RX55/RX55ES)
- 15 Cassette holder
- 16 POWER switch
- 17 TIMER switch (TC-RX55/RX55ES)

SECTION 2 ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idler
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
6. Switch position

DOLBY NR	: OFF
B/C	: B
MPX FILTER	: OFF
DIRECTION MODE	: ⇄
TIMER	: OFF

Torque Measurement

Torque	Torque Meter	Meter Reading
FWD	CQ-102C	27 to 75g · cm (0.378 to 1.05 oz · inch)
FWD Back tension	CQ-102C	1 to 10g · cm (0.014 to 0.14 oz · inch)
REV	CQ-102RC	27 to 75g · cm (0.378 to 1.05 oz · inch)
REV Back Tension	CQ-102RC	1 to 10g · cm (0.014 to 0.14 oz · inch)
FF, REW	CQ-102B	95 to 165g · cm (1.33 to 2.31 oz · inch)

2-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in the service manual.

The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.

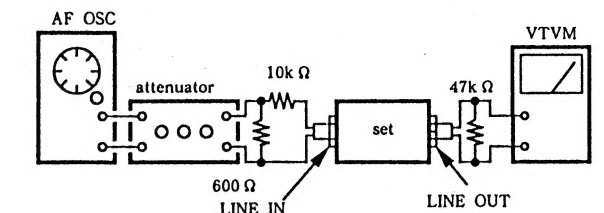
- | | |
|-----------------------|-------------------------------|
| DOLBY NR switch | : OFF |
| DIRECTION MODE switch | : ⇄ |
| TIMER switch | : OFF |
| TAPE SELECT switch | : According to the tape type. |

Tape	TAPE Switch
CS-17	TYPE I
CS-26	TYPE II
CS-42	TYPE IV

- Standard Record :

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

—Record Mode—



Standard Input Level

	LINE IN
source impedance	10k Ω
input level	0.25V (−10dB)

Standard Output Level

	LINE OUT
load impedance	47k Ω
output level	0.44V (−5dB)

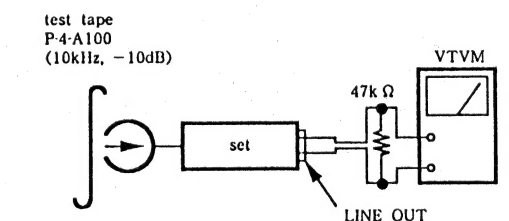
• Test tape

Type	Signal	Used for
P-4-A100	10kHz, −10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB LEVEL Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

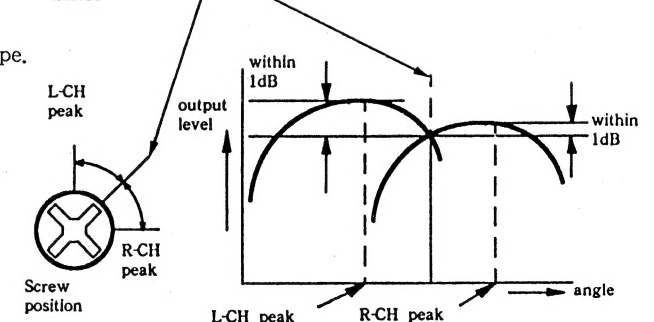
Record/Playback Head Azimuth Adjustment

Procedure :

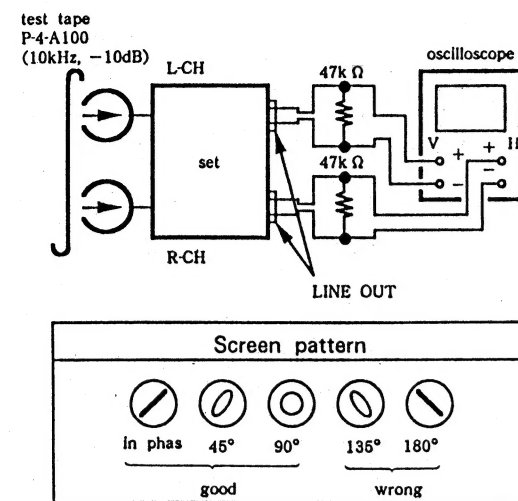
1. Mode : FWD playback



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.

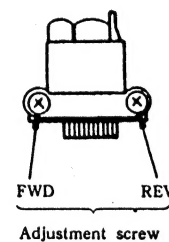


3. Phase Check Mode : playback



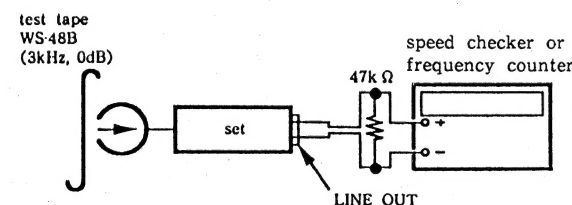
4. Set in the REV mode and repeat the step 1-3.
5. After the adjustment, lock the screws with locking compound.

Adjustment Location : Record/Playback head



Tape Speed Adjustment

Procedure :
Mode : FWD playback



Specifications :

SPEED CHECKER	FREQUENCY COUNTER
0.19%	2,965~2,995Hz

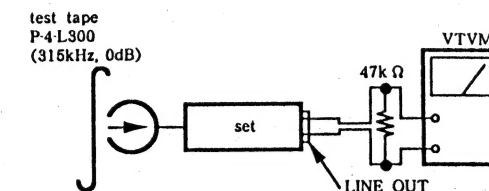
Adjust the variable resistor which built-in the motor so that the frequency difference between the beginning and the end of the tape should be contented within 1.5% (45Hz).

Adjustment Location :
: motor (M901) rear side

Playback Level Adjustment

Procedure :

Mode : playback



Adjust RV41 (L-CH), RV61 (R-CH) so that the reading on VTVM meets the specification below.

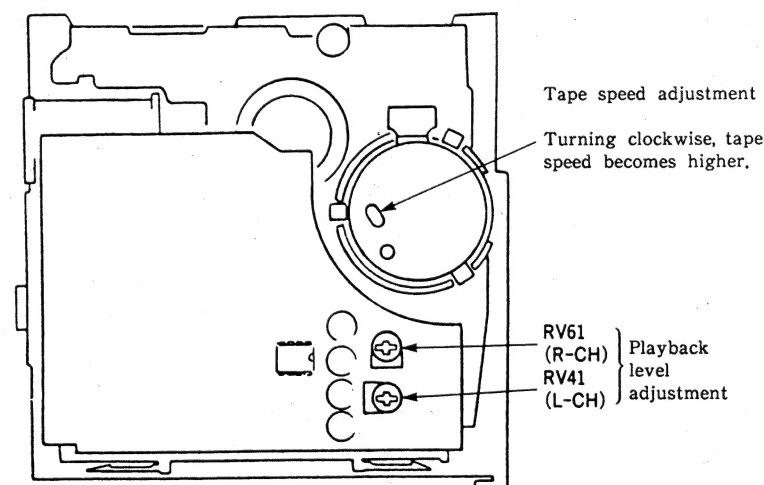
Specification :

LINE OUT level : $-5 \pm 0.5\text{dB}$ (0.41~0.46V)

Level difference between channels : less than 0.5dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location : MD (B) board



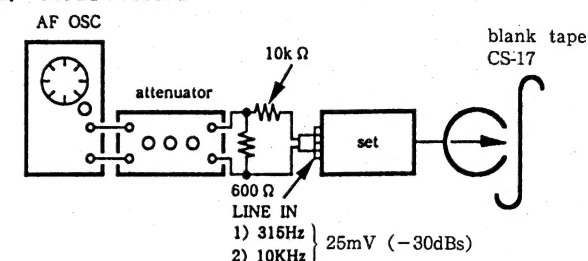
Record Bias Adjustment

Setting :

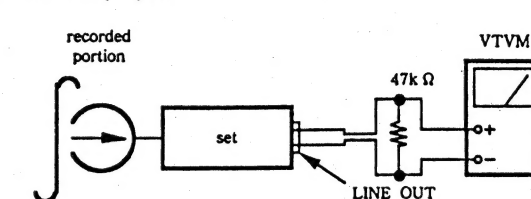
REC LEVEL control : standard record (See page 4.)

Procedure :

1. Mode : record

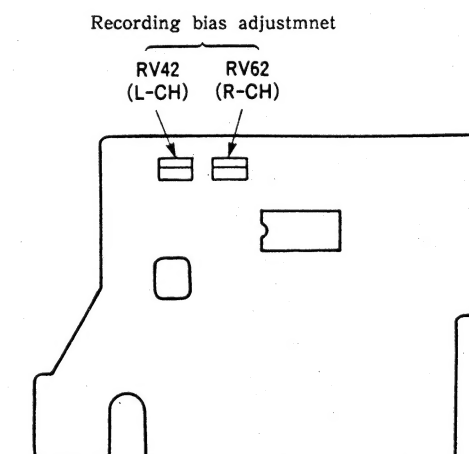


2. Mode : playback



Confirm that the 10kHz playback output is $0 \pm 0.5\text{dB}$ relative to the 315Hz output. If necessary, adjust RV42 (L-CH), RV62 (R-CH) and repeat the steps given above.

Adjustment Location : HX PRO board



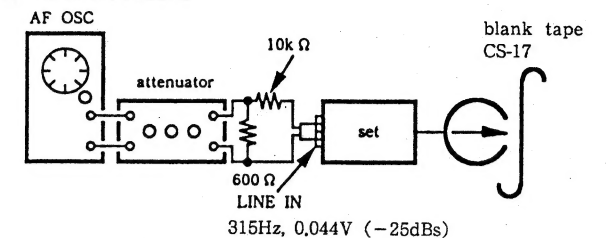
Record Level Adjustment

Setting :

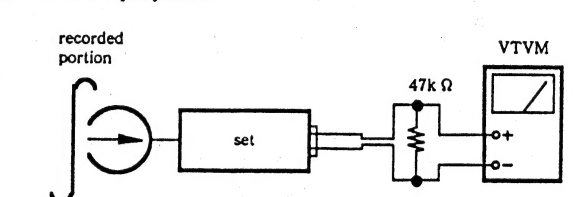
REC LEVEL control : standard record (See page 4.)

Procedure :

1. Mode : record



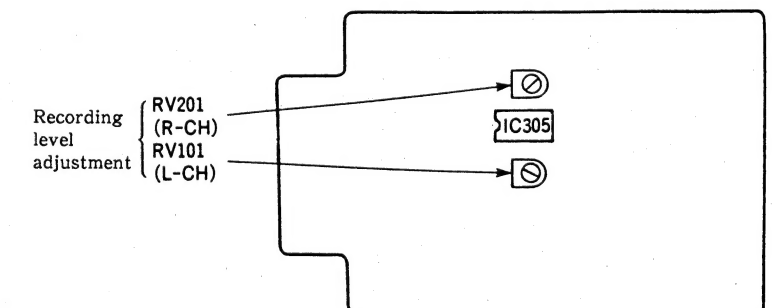
2. Mode : playback



3. Play back the signal recorded in step 1.
Confirm that the signal level is within the specification below. If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the step 1-3.

Specification : LINE OUT level : $-25\text{dB} \pm 0.5\text{dBs}$ (0.041~0.046V)

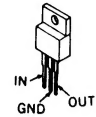
Adjustment Location : MAIN board



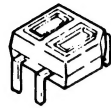
SECTION 3 DIAGRAMS

● Semiconductor Lead Layouts

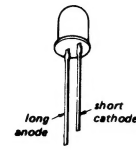
M5F7805
M5F7807



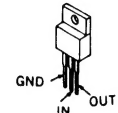
GP-2S09-C



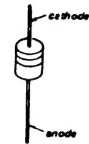
SEL4414E-D



M5F7907



UZ-4.7BSC
UZL-7H2



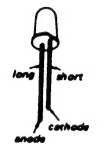
DTA114ES
DTA124ES
DTA144ES
DTC114ES



1S5132
1OE2N



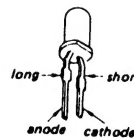
SEL1410E



2SA733
2SA1345
2SB1013
2SC945-L
2SD1387



SEL2210S-C
SEL2410E-C
SEL2910A-C



2SB1116



SEL4214S



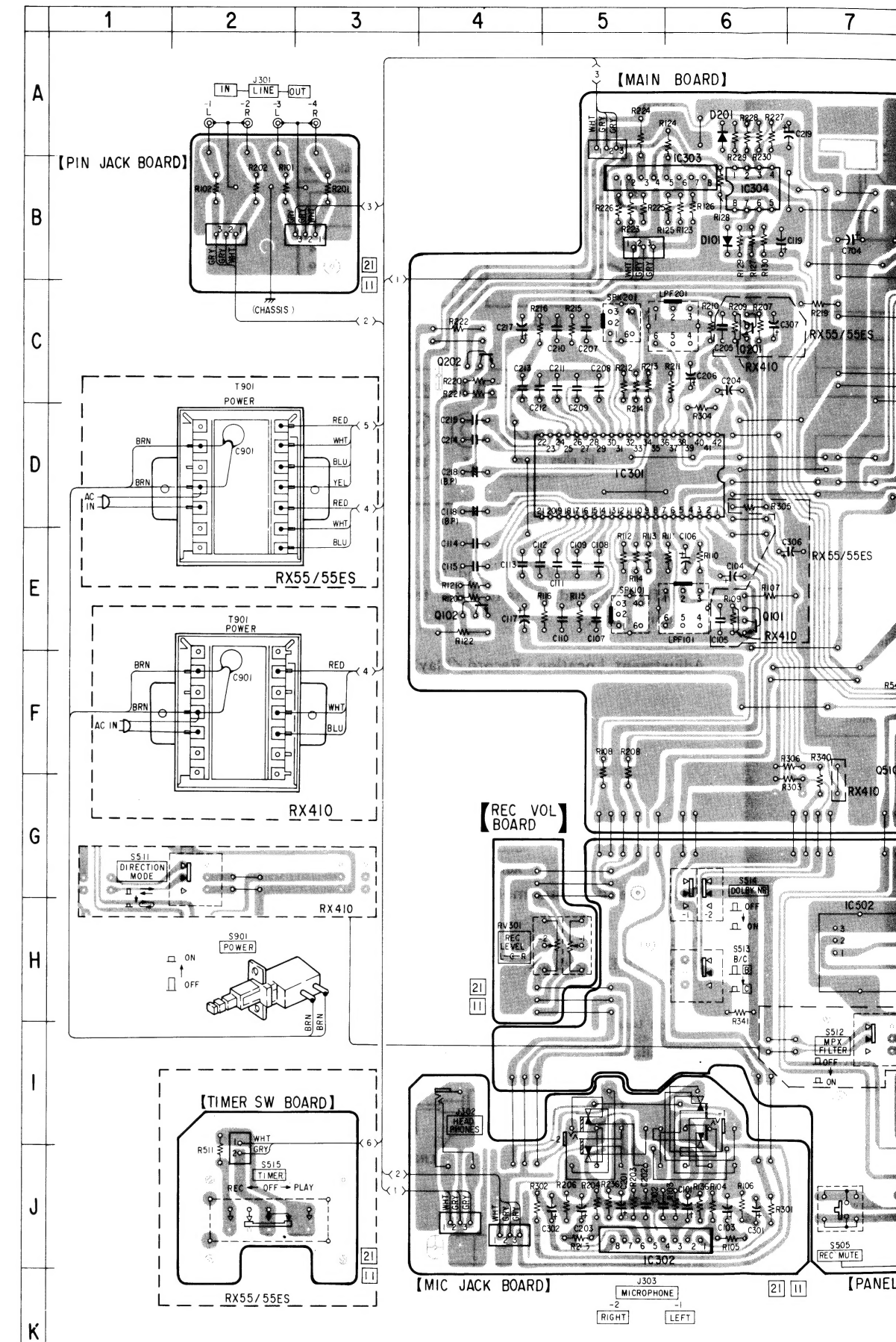
2SC2785

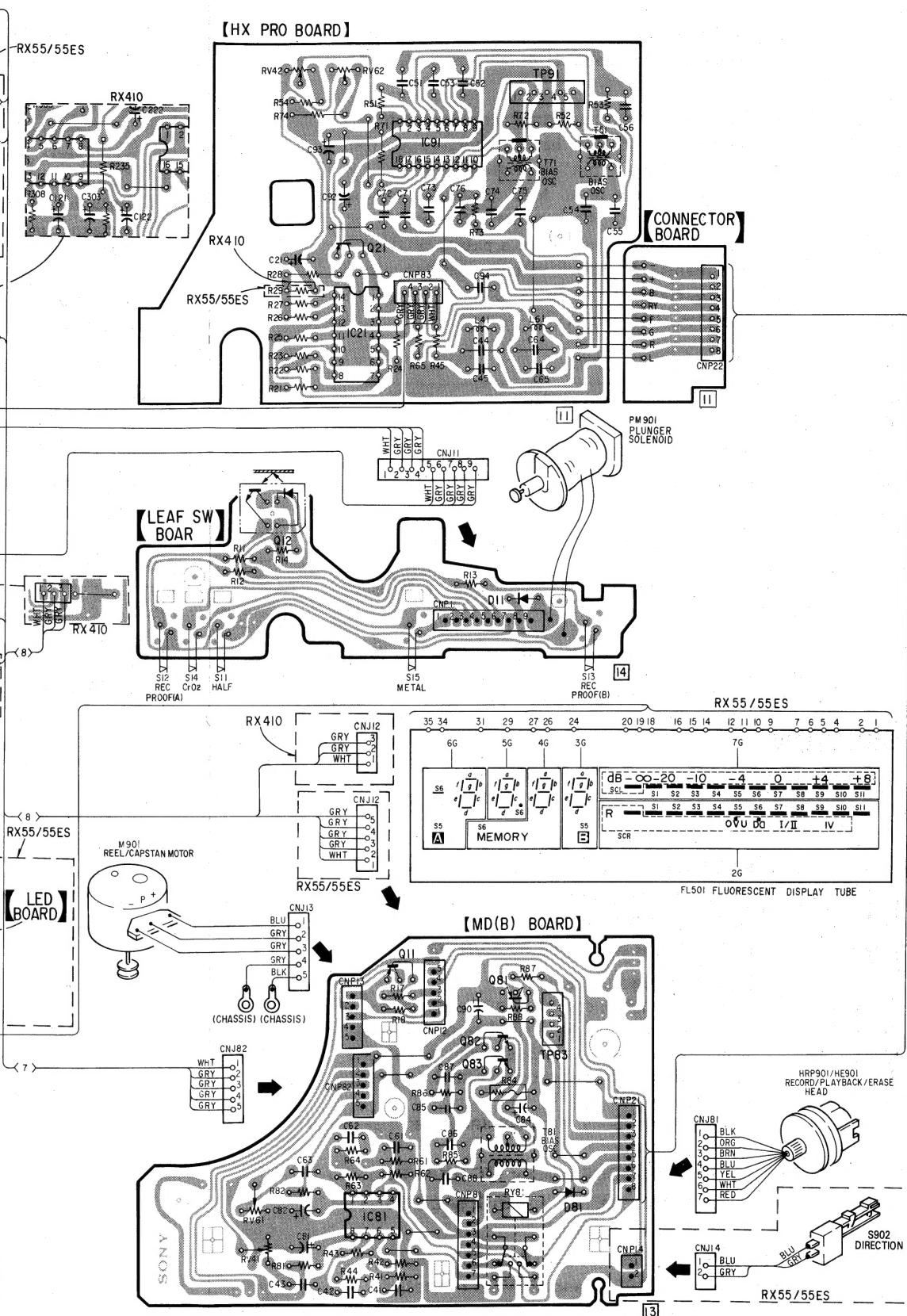
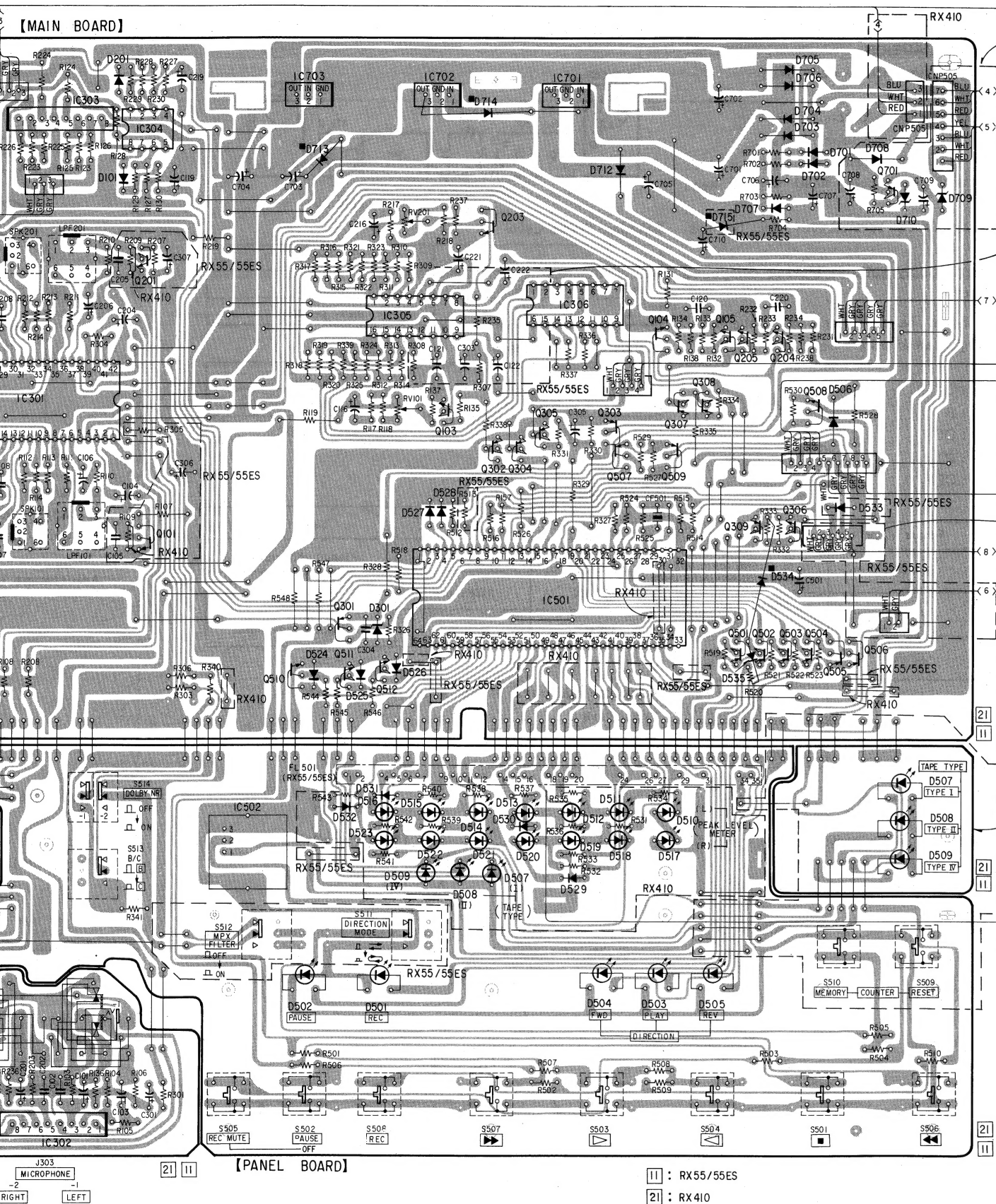


● Semiconductor Location

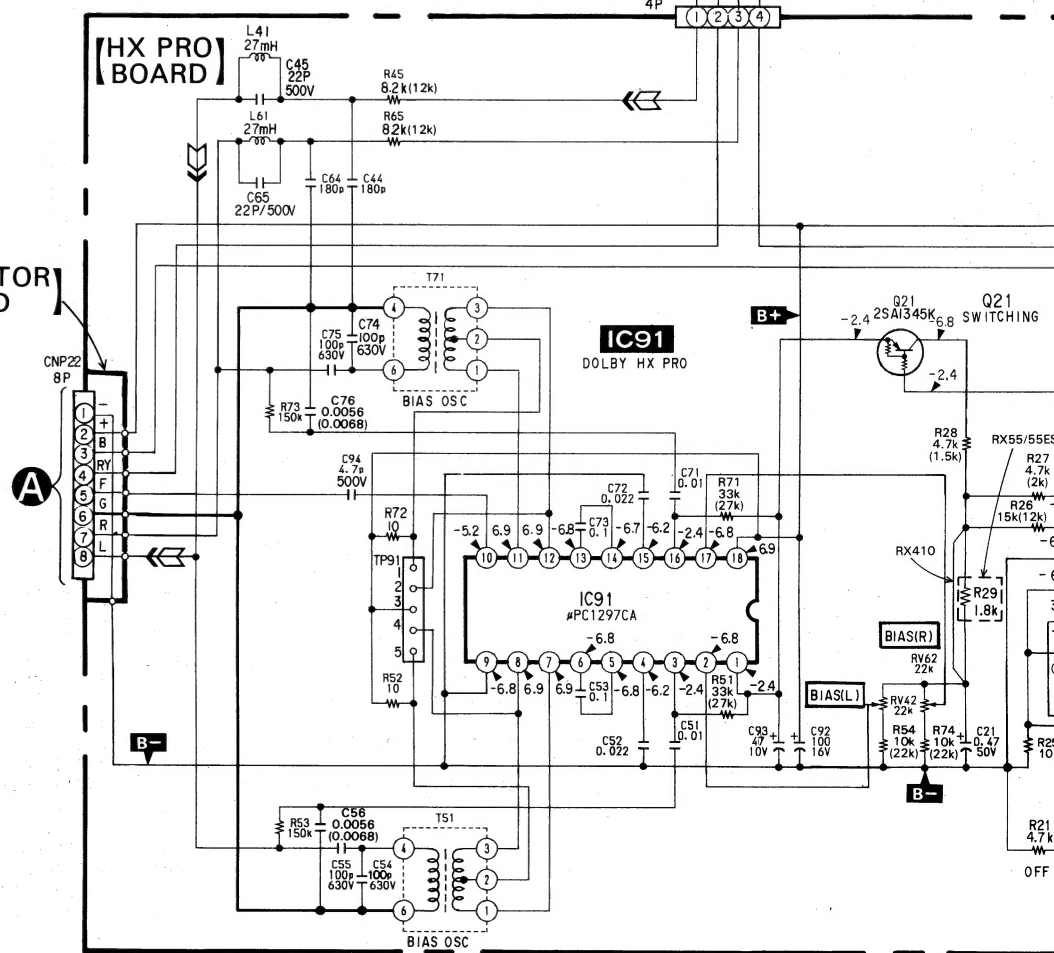
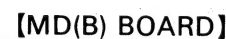
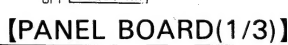
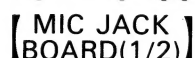
Ref. No.	Location	Ref. No.	Location
D11	E-17	IC21	C-16
D81	J-18	IC81	J-16
D101	B-6	IC91	B-17
D201	A-6	IC301	D-5
D301	F-8	IC302	J-5
D501	I-8	IC303	B-6
D502	I-8	IC304	B-6 (RX410)
D503	I-11	IC305	C-8
D504	I-10	IC306	C-10
D505	I-11	IC501	F-10
D506	D-12	IC502	H-7
D507	G-13 (RX55/55ES)	IC701	A-10 (RX410)
D507	H-9 (RX410)	IC702	A-9
D508	H-13 (RX55/55ES)	IC703	A-8
D508	H-9 (RX410)	Q11	H-17
D509	H-13 (RX55/55ES)	Q12	E-16
D509	H-9 (RX410)	Q21	C-16
D510	H-11 (RX410)	Q81	H-17
D511	H-10 (RX410)	Q82	I-17
D512	H-10 (RX410)	Q83	I-17
D513	H-9 (RX410)	Q101	E-6 (RX410)
D514	H-9 (RX410)	Q102	E-4
D515	H-9 (RX410)	Q103	D-9
D516	H-8 (RX410)	Q104	D-11
D517	H-11 (RX410)	Q105	D-11
D518	H-10 (RX410)	Q201	C-6 (RX410)
D519	H-10 (RX410)	Q202	C-4
D520	H-9 (RX410)	Q203	C-9
D521	H-9 (RX410)	Q204	D-12
D522	H-9 (RX410)	Q205	D-11
D523	H-8 (RX410)	Q301	F-8
D524	F-8	Q302	E-9
D525	F-8	Q303	D-10
D526	F-8	Q304	E-9
D527	E-9	Q305	D-10
D528	E-9	Q306	E-12
D529	H-10 (RX410)	Q307	D-11
D530	H-9 (RX410)	Q308	D-11
D531	G-8 (RX410)	Q309	E-11
D532	H-8 (RX410)	Q501	F-11
D533	E-12 (RX55/55ES)	Q502	F-11
D534	F-12	Q503	F-12
D535	F-12	Q504	F-12
D701	B-12	Q505	F-12
D702	B-12	Q506	F-12
D703	B-12 (RX410)	Q507	E-10
D704	B-12 (RX410)	Q508	D-12
D705	A-12 (RX410)	Q509	E-11
D706	A-12 (RX410)	Q510	F-8
D707	B-12	Q511	F-8
D708	B-12 (RX55/55ES)	Q512	F-8
D709	B-13 (RX55/55ES)	Q701	B-13 (RX55/55ES)
D710	B-13 (RX55/55ES)		
D712	B-10		
D713	B-8		
D714	B-9		
D715	C-11 (RX55/55ES)		

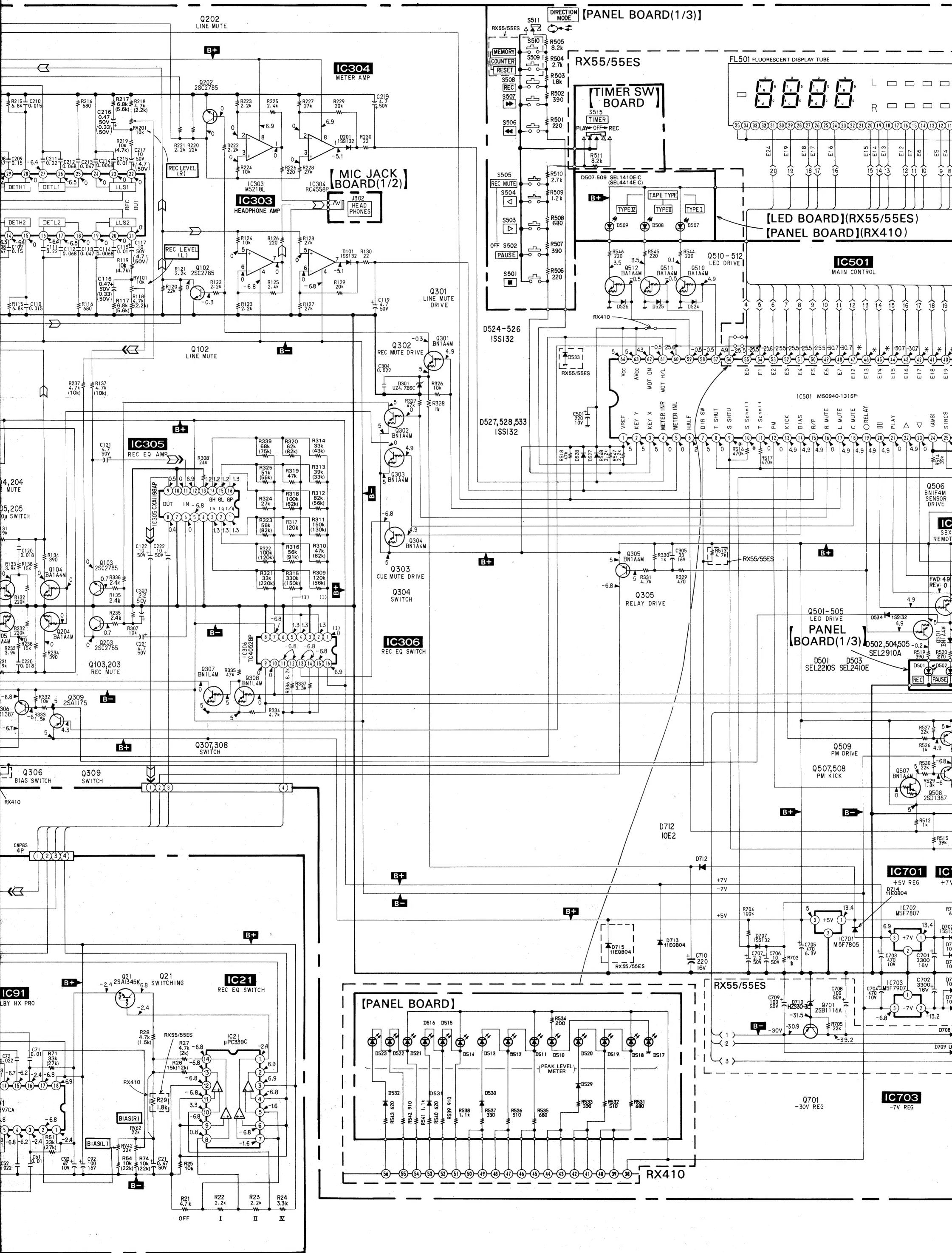
Note:
 ● ○ : parts extracted from the component side.
 ● ● : parts extracted from the conductor side.
 ● □ : indicates side identified with part number.

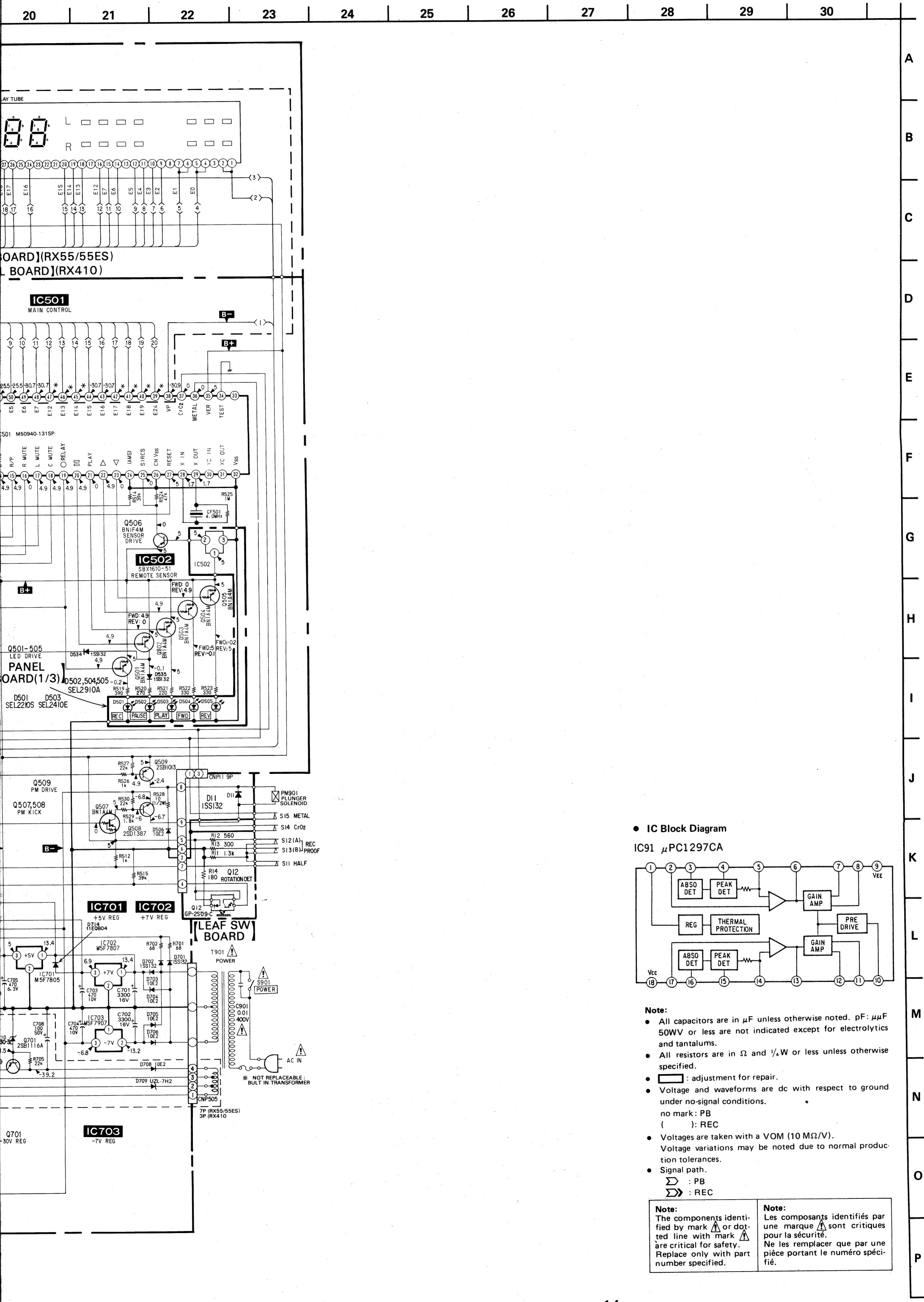




1	2	3	4	5	6	7	8	9	10	11
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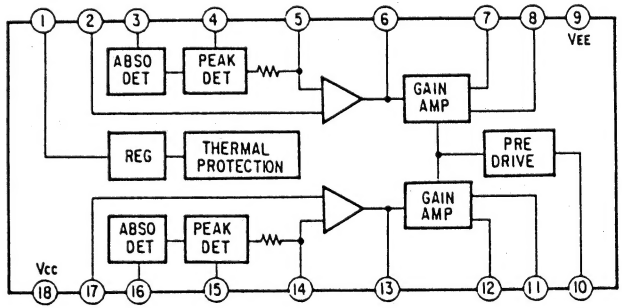






● IC Block Diagram

IC91 μ PC1297CA



- Note:**
- All capacitors are in μ F unless otherwise noted. pF: μ F 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
 - : adjustment for repair.
 - Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark: PB
(): REC
 - Voltages are taken with a VOM (10 M Ω /V).
Voltage variations may be noted due to normal production tolerances.
 - Signal path.
 Σ : PB
 $\Sigma\Sigma$: REC



Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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
SECTION 4
EXPLODED VIEWS

NOTE:

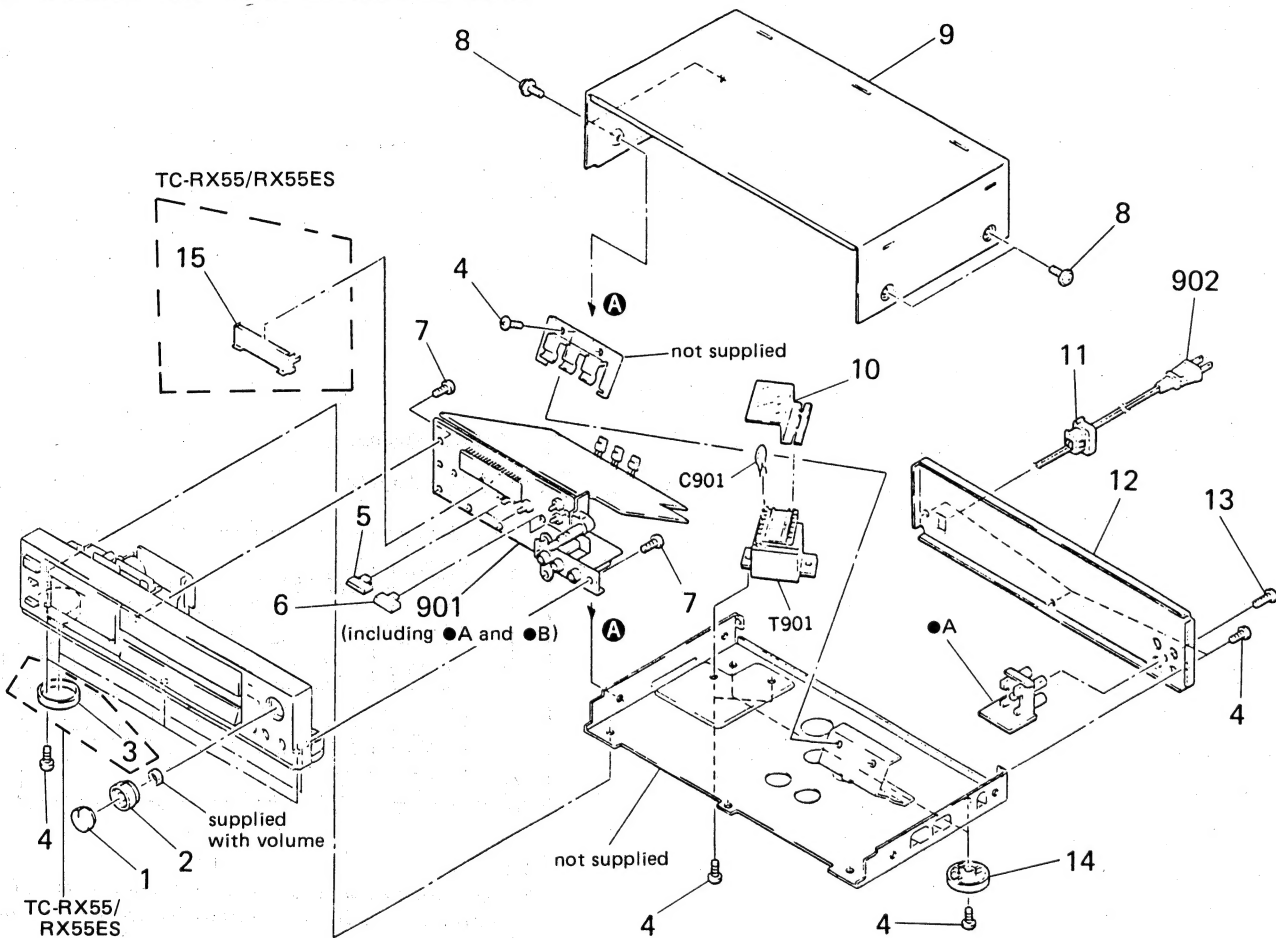
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ Cabinet's Color ↑ Parts' Color

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

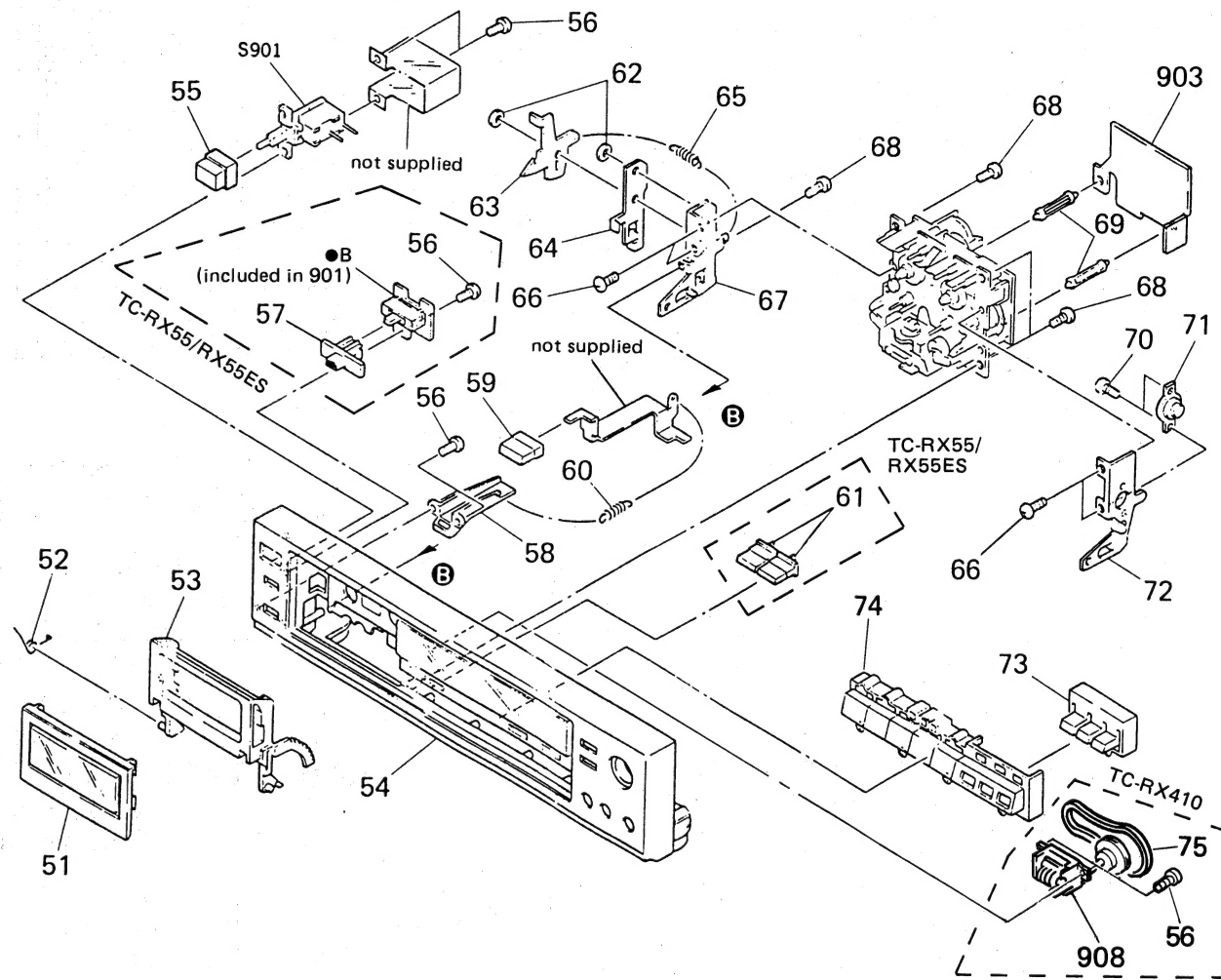
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1) CABINET AND MAIN BOARDS SECTION






No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	3-332-590-01	KNOB (REC VOL-RIGHT)		13	7-621-849-00	SCREW, TAPPING	
2	3-332-589-01	KNOB (REC VOL-LEFT)		14	X-4885-935-1	(RX55:AEP/UK/E3,RX55ES)...FOOT ASSY	
3	4-929-030-11	(RX55,RX55ES)...RING (DIA.58A), ORNAMENTAL			X-4911-201-1	(RX410,RX55:Canadian/E2)...FOOT ASSY	
4	7-682-548-04	SCREW +BVTT 3X8 (S)		15	*3-350-824-01	(RX55,RX55ES)...HOLDER (FL)	
5	3-350-810-01	BUTTON		901	*A-2006-064-A	(RX55,RX55ES)...MOUNTED PCB, AUDIO	
6	3-350-809-01	BUTTON			*A-2006-073-A	(RX410)...MOUNTED PCB, AUDIO	
7	4-928-635-01	SCREW, +BV (2.6X8) TAPPING		902	△.1-551-506-XX	(US,Canadian,E3)...CORD, POWER	
8	3-704-366-01	SCREW (CASE) (M3X8)			△.1-551-884-32	(UK)...CORD, POWER	
9	3-332-578-61	CASE			△.1-555-795-00	(AEP,E3)...CORD, POWER, EURO PLUG	
10	*3-337-136-01	COVER, TRANSFORMER SAFETY		C901	△.1-161-744-00	CAP, CERAMIC 10000PF FZ	
11	*3-703-244-00	(AEP,UK,E3)...BUSHING (2104), CORD					
	3-703-571-00	(US,Canadian,E2)...BUSHING (S) (4516), CORD					
12	*3-350-802-11	(RX55:UK)...PANEL, BACK					
	*3-350-802-21	(RX55:AE1/West Germany/E3)...PANEL, BACK					
	*3-350-802-31	(RX55:AE2)...PANEL, BACK					
	*3-350-802-41	(RX55ES)...PANEL, BACK					
	*3-350-802-51	(RX410)...PANEL, BACK					
	*3-350-802-61	(RX55,Canadian)...PANEL, BACK					

(2) FRONT PANEL SECTION

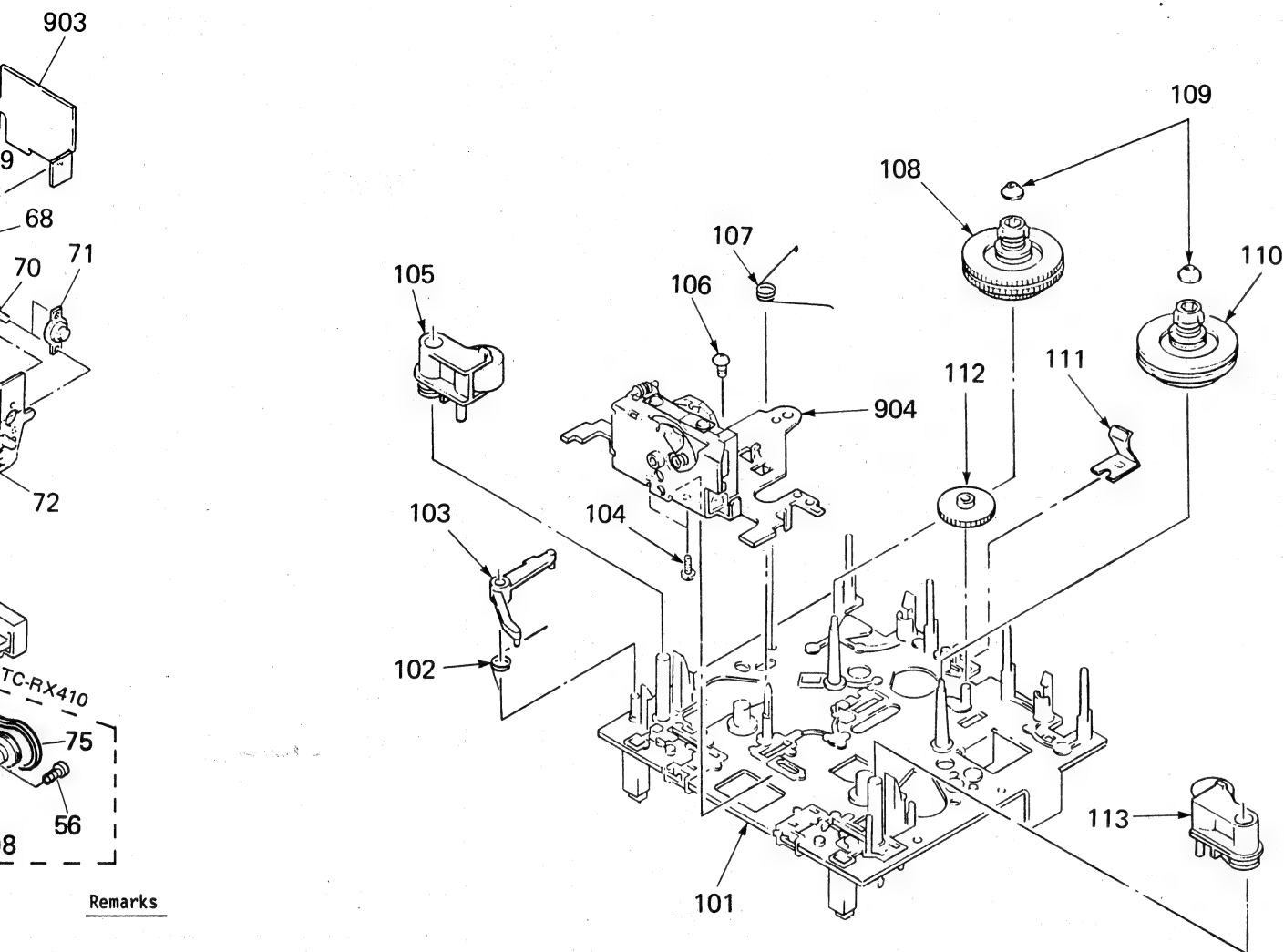


No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	X-3332-555-1	(RX55ES)...LID ASSY, CASSETTE		64	*3-346-306-01	LEVER (EJECT)	
	X-3332-556-1	(RX55)...LID ASSY, CASSETTE		65	3-312-432-00	SPRING, TENSION	
	X-3332-560-1	(RX410)...LID ASSY, CASSETTE		66	7-621-773-86	SCREW +BVTT 2.6X4 (S)	
52	3-346-336-01	SPRING, TORSION		67	*X-3332-487-1	BRACKET ASSY (B)	
53	X-3332-482-1	HOLDER ASSY, CASSETTE		68	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
54	X-3332-558-1	(RX55ES)...PANEL ASSY, FRONT		69	*3-682-419-21	HOLDER, P.C.B	
	X-3332-559-1	(RX55)...PANEL ASSY, FRONT		70	7-621-255-15	SCREW +PTT 2X3 (S)	
	X-3332-561-1	(RX410)...PANEL ASSY, FRONT		71	3-319-224-31	DAMPER, SMALL	
55	4-917-460-01	KNOB, POWER		72	*3-346-305-01	BRACKET (DAMPER)	
56	4-928-635-01	SCREW, +BV (2.6X8) TAPPING		73	3-350-813-01	BUTTON (B)	
57	3-307-538-11	(RX55,RX55ES)...KNOB, SWITCH, TIMER		74	3-350-819-01	BUTTON (A)	
58	*3-349-017-01	RETAINER, SLIDER		75	3-506-040-XX	(RX410)...BELT, SQUARE	
59	3-343-698-21	BUTTON (EJECT)		903	*1-630-423-11	PC BOARD, HX PRO	
60	3-662-752-21	SPRING, TENSION		908	1-548-596-31	(RX410)...COUNTER, TAPE (MIDDLE TYPE)	
61	3-350-812-01	(RX55,RX55ES)...BUTTON (COUNTER)		S901	△.1-553-318-71	SWITCH, PUSH (AC POWER)(1 KEY)	
62	3-558-708-21	WASHER, STOPPER		T901	△.1-449-596-11	(RX55ES,RX55:Canadian/E2) ...TRANSFORMER, POWER	
63	*3-343-449-01	LEVER (LOCK LEVER)		T901	△.1-449-597-11	(RX55:AEP/UK/E3)...TRANSFORMER, POWER	
				T901	△.1-449-598-11	(RX410)...TRANSFORMER, POWER	

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(3) TAPE TRANSPORT MECHANISM SECTION-1
(TCM-170RB11 (TC-RX55/RX55ES)/170RB13 (TC-RX410))



Remarks

N-S

(MIDDLE TYPE)
KEY)

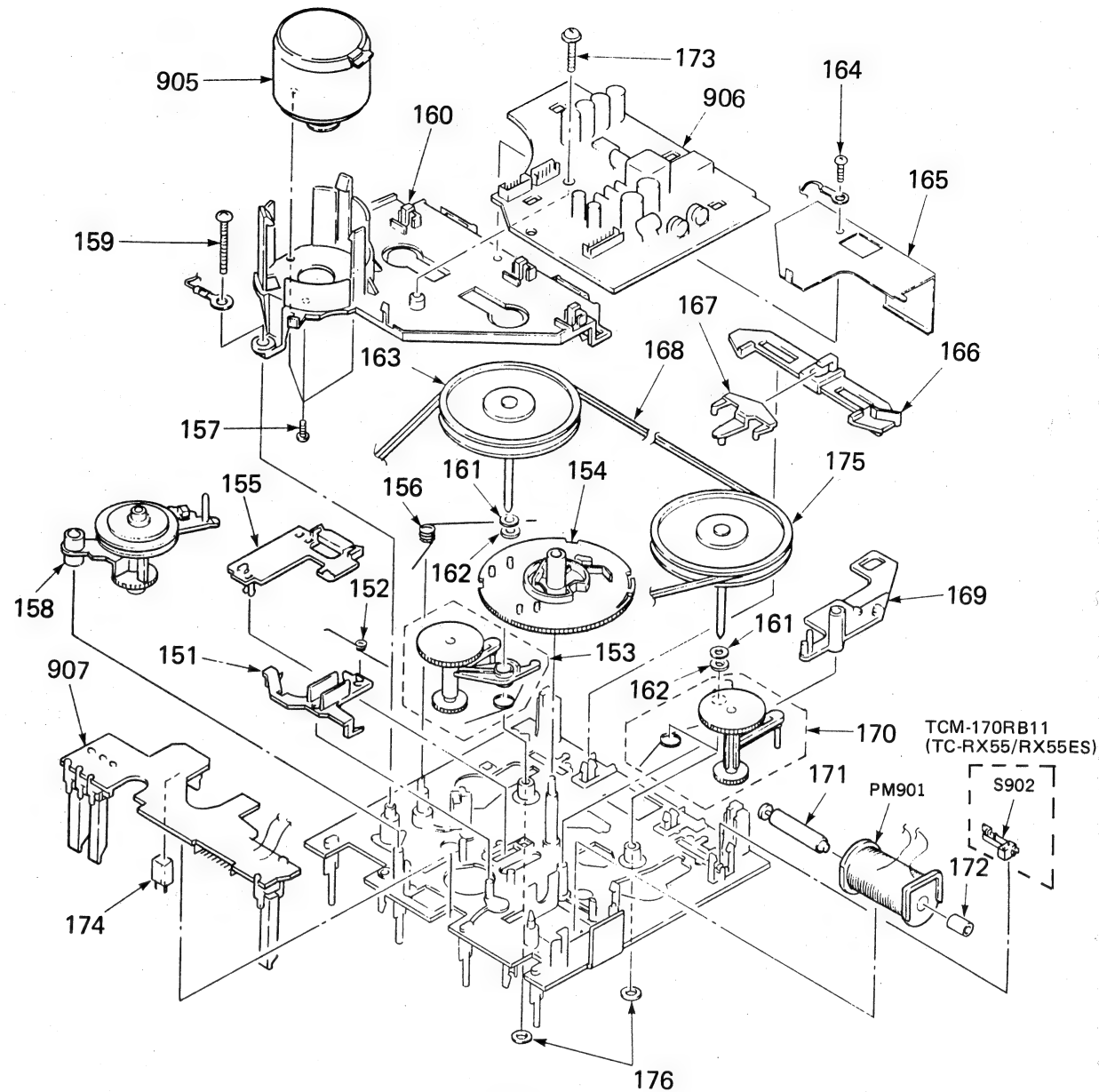
FORMER, POWER
FORMER, POWER
FORMER, POWER

identifiés par
ont critiques

que par une
uméro spéci-

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	*X-3343-418-1	CHASSIS ASSY, MECHANICAL		109	3-343-439-01	CAP (REEL TABLE)	
102	3-343-477-01	SPRING, TORSION (EJECT SAFETY)		110	X-3343-401-1	TABEL ASSY, REEL	
103	*3-343-476-01	LEVER (EJECT SAFETY LEVER)		111	3-343-420-01	SPRING, LEAF	
104	7-685-102-19	SCREW +P 2X4 NON-SLIT TYPE 2		112	3-343-411-01	GEAR (FF GEAR)	
105	X-3343-403-1	LEVER (PINCH LEVER REV) ASSY		113	X-3343-402-1	LEVER (PINCH LEVER FWD) ASSY	
106	7-621-773-86	SCREW +BVT 2.6X4 (S)		904	A-2108-124-A	(RX55,RX55ES)	
107	3-343-401-01	SPRING, TORSION			A-2108-130-A	(RX410)	
108	X-3343-415-1	TABEL (REV) ASSY, REEL				...CHASSIS ASSY, HEAD (HE901,HRP901)	
						...CHASSIS ASSY, HEAD (HE901,HRP901)	

(4) TAPE TRANSPORT MECHANISM SECTION-2
(TCM-170RB11 (TC-RX55/RX55ES)/170RB13 (TC-RX410))



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	3-343-453-01	SLIDER (BRAKE PLATE)		166	*3-343-457-01	SLIDER (REVERSE SLIDER)	
152	3-343-429-01	SPRING, TORSION		167	3-343-462-01	LEVER	
153	X-3343-406-1	LEVER (TU ARM REV) ASSY		168	3-343-426-02	BELT (CAPSTAN BELT SQUARE)	
154	3-343-470-01	GEAR (CAM GEAR)		169	3-343-493-01	LEVER (PM LEVER)	
155	*3-343-461-01	SLIDER		170	X-3343-405-1	LEVER (TU ARM FWD) ASSY	
156	3-343-430-01	SPRING, TORSION		171	*3-343-425-01	ARBOR(MOVABLE IRON ARBOR),IRON	
157	7-627-556-28	SCREW +P 2.6X3.5		172	*3-343-424-01	ARBOR (FIXED IRON ARBOR), IRON	
158	X-3343-414-1	LAVER (FR ARM) ASSY		173	3-343-404-01	SCREW (PTPHW 2X10)	
159	3-343-403-01	SCREW (PTTWH 2X18)		174	*3-343-419-01	HOLDER (S SENSER A)	
160	*X-3343-407-1	BASE (THRUST RETAINER) ASSY		175	X-3343-431-1	FLYWHEEL (REV) COMPLETE ASSY	
161	4-605-835-11	WASHER (2.6), POLYSLIDER		176	3-343-473-01	WASHER, NYLON	
162	3-307-482-00	WASHER, LUMILER		905	X-3343-408-1	MOTOR ASSY (M901)	
163	X-3343-429-1	FLYWHEEL COMPLETE ASSY		906	*1-629-211-11	PC BOARD, MD (B)	
164	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT		907	*1-624-148-11	PC BOARD, LEAF SW	
165	3-343-480-01	PLATE, SHIELD		PM901	1-454-456-11	SOLENOID, PLUNGER	
				S902	1-571-028-11	(RX55,RX55ES)...SWITCH, LEAF (DIRECTION)	

SECTION 5

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA....: μ A...., UPA....: μ PA....,
UPC....: μ PC, UPD....: μ PD....

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	*A-2006-064-A	(RX55,RX55ES)...MOUNTED PCB, AUDIO	C85	1-130-856-00	FILM 0.0068MF 5% 100V
	*A-2006-073-A	(RX410).....MOUNTED PCB, AUDIO	C86	1-136-230-00	FILM 0.0022MF 5% 100V
902	Δ 1-551-506-XX	(US,Canadian,E)...CORD, POWER	C87	1-136-230-00	FILM 0.0022MF 5% 100V
	Δ 1-551-884-32	(UK).....CORD, POWER	C88	1-136-558-11	FILM 0.0039MF 5% 630V
	Δ 1-555-795-00	(AEP,E3)...CORD, POWER, EURO PLUG	C90	1-126-101-11	ELECT 100MF 20% 16V
903	*1-630-423-11	PC BOARD, HX PRO	C92	1-126-101-11	ELECT 100MF 20% 16V
904	A-2108-124-A	(RX55,RX55ES)...CHASSIS ASSY, HEAD (HE901,HRP901)	C93	1-124-446-11	ELECT 47MF 20% 10V
	A-2108-130-A	(RX410)...CHASSIS ASSY, HEAD (HE901,HRP901)	C94	1-107-046-00	MICA 4.7PF 0.5PF 500V
905	X-3343-408-1	MOTOR ASSY (M901)	C101	1-124-499-11	ELECT 1MF 20% 50V
906	*1-629-211-11	PC BOARD, MD (B)	C102	1-162-292-31	CERAMIC 680PF 10% 50V
907	*1-624-148-11	PC BOARD, LEAF SW	C103	1-124-499-11	ELECT 1MF 20% 50V
908	1-548-596-31	(RX410)...COUNTER, TAPE (MIDDLE TYPE)	C104	1-123-875-11	ELECT 10MF 20% 50V
C21	1-124-902-00	ELECT 0.47MF 20% 50V	C105	1-161-375-00	(RX55,RX55ES)..CERAMIC 0.0022MF 30% 16V
C41	1-110-342-11	(RX410).....MYLAR 390PF 5% 50V	C106	1-123-875-11	ELECT 10MF 20% 50V
C41	1-130-469-00	(RX55,RX55ES)...MYLAR 680PF 5% 50V	C107	1-130-479-00	MYLAR 0.0047MF 5% 50V
C42	1-136-157-00	FILM 0.022MF 5% 50V	C108	1-136-173-00	FILM 0.47MF 5% 50V
C43	1-124-282-00	ELECT 22MF 20% 25V	C109	1-136-167-00	FILM 0.15MF 5% 50V
C44	1-162-285-31	CERAMIC 180PF 10% 50V	C110	1-136-155-00	FILM 0.015MF 5% 50V
C45	1-107-210-00	MICA 22PF 5% 500V	C111	1-136-169-00	FILM 0.22MF 5% 50V
C51	1-136-153-00	FILM 0.01MF 5% 50V	C112	1-136-163-00	FILM 0.068MF 5% 50V
C52	1-136-157-00	FILM 0.022MF 5% 50V	C113	1-136-161-00	FILM 0.047MF 5% 50V
C53	1-136-165-00	FILM 0.1MF 5% 50V	C114	1-130-481-00	MYLAR 0.0068MF 5% 50V
C54	1-136-433-11	FILM 100PF 5% 630V	C115	1-136-153-00	FILM 0.01MF 5% 50V
C55	1-136-433-11	FILM 100PF 5% 630V	C116	1-124-252-00	(RX410).....ELECT 0.33MF 20% 50V
C56	1-130-468-00	(RX55,RX55ES)...MYLAR 560PF 5% 50V	C116	1-124-902-00	(RX55,RX55ES)...ELECT 0.47MF 20% 50V
C56	1-130-469-00	(RX410).....MYLAR 680PF 5% 50V	C117	1-123-875-11	(RX55,RX55ES)...ELECT 10MF 20% 50V
C61	1-110-342-11	(RX410).....MYLAR 390PF 5% 50V	C117	1-124-927-11	(RX410).....ELECT 4.7MF 20% 50V
C61	1-130-469-00	(RX55,RX55ES)...MYLAR 680PF 5% 50V	C118	1-124-768-11	ELECT 4.7MF 20% 50V
C62	1-136-157-00	FILM 0.022MF 5% 50V	C119	1-124-927-11	ELECT 4.7MF 20% 50V
C63	1-124-282-00	ELECT 22MF 20% 25V	C120	1-136-156-00	FILM 0.018MF 5% 50V
C64	1-162-285-31	CERAMIC 180PF 10% 50V	C121	1-124-927-11	ELECT 4.7MF 20% 50V
C65	1-107-210-00	MICA 22PF 5% 500V	C122	1-123-875-11	ELECT 10MF 20% 50V
C71	1-136-153-00	FILM 0.01MF 5% 50V	C201	1-124-499-11	ELECT 1MF 20% 50V
C72	1-136-157-00	FILM 0.022MF 5% 50V	C202	1-162-292-31	CERAMIC 680PF 10% 50V
C73	1-136-165-00	FILM 0.1MF 5% 50V	C203	1-124-499-11	ELECT 1MF 20% 50V
C74	1-136-433-11	FILM 100PF 5% 630V	C204	1-123-875-11	ELECT 10MF 20% 50V
C75	1-136-433-11	FILM 100PF 5% 630V	C205	1-161-375-00	(RX55,RX55ES)..CERAMIC 0.0022MF 30% 16V
C76	1-130-468-00	(RX55,RX55ES)...MYLAR 560PF 5% 50V	C206	1-123-875-11	ELECT 10MF 20% 50V
C76	1-130-469-00	(RX410).....MYLAR 680PF 5% 50V	C207	1-130-479-00	MYLAR 0.0047MF 5% 50V
C81	1-124-443-00	ELECT 100MF 20% 10V	C208	1-136-173-00	FILM 0.47MF 5% 50V
C82	1-124-443-00	ELECT 100MF 20% 10V	C209	1-136-167-00	FILM 0.15MF 5% 50V
C84	1-123-875-11	ELECT 10MF 20% 50V	C210	1-136-155-00	FILM 0.015MF 5% 50V
			C211	1-136-169-00	FILM 0.22MF 5% 50V
			C212	1-136-163-00	FILM 0.068MF 5% 50V
			C213	1-136-161-00	FILM 0.047MF 5% 50V

TC-RX55/RX55ES/RX410

Ref.No.	Part No.	Description
C214	1-130-481-00	MYLAR 0.0068MF 5% 50V
C215	1-136-153-00	FILM 0.01MF 5% 50V
C216	1-124-902-00	(RX55,RX55ES)...ELECT 0.47MF 20% 50V
C216	1-124-252-00	(RX410).....ELECT 0.33MF 20% 50V
C217	1-123-875-11	(RX55,RX55ES)...ELECT 10MF 20% 50V
C217	1-124-927-11	(RX410).....ELECT 4.7MF 20% 50V
C218	1-124-768-11	ELECT 4.7MF 20% 50V
C219	1-124-927-11	ELECT 4.7MF 20% 50V
C220	1-136-156-00	FILM 0.018MF 5% 50V
C221	1-124-927-11	ELECT 4.7MF 20% 50V
C222	1-123-875-11	ELECT 10MF 20% 50V
C301	1-123-875-11	ELECT 10MF 20% 50V
C302	1-123-875-11	ELECT 10MF 20% 50V
C303	1-124-925-11	ELECT 2.2MF 20% 50V
C304	1-161-494-00	CERAMIC 0.022MF 25V
C305	1-124-963-11	ELECT 33MF 20% 16V
C306	1-124-499-11	ELECT 1MF 20% 50V
C307	1-124-499-11	(RX55,RX55ES)...ELECT 1MF 20% 50V
C501	1-126-176-11	ELECT 220MF 20% 10V
C701	1-124-887-00	ELECT 3300MF 20% 16V
C702	1-124-887-00	ELECT 3300MF 20% 16V
C703	1-124-472-11	ELECT 470MF 20% 10V
C704	1-124-472-11	ELECT 470MF 20% 10V
C705	1-124-472-11	ELECT 470MF 20% 6.3V
C706	1-123-875-11	ELECT 10MF 20% 50V
C707	1-124-925-11	ELECT 2.2MF 20% 50V
C708	1-124-122-11	(RX55,RX55ES)...ELECT 100MF 20% 50V
C709	1-124-122-11	(RX55,RX55ES)...ELECT 100MF 20% 50V
C710	1-124-120-11	ELECT 220MF 20% 16V
C901	1-161-744-00	CAP, CERAMIC 10000PF FZ
CF501	1-577-082-11	VIBRATOR, CERAMIC (4MHZ)
CNP11	*1-506-615-11	PIN, CONNECTOR 9P
CNP12	*1-564-337-00	(RX410).....PIN, CONNECTOR 3P
CNP12	*1-564-339-61	(RX55,RX55ES)...PIN, CONNECTOR 5P
CNP13	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P
CNP14	*1-564-704-11	(RX55,RX55ES)...PIN, CONNECTOR (SMALL TYPE) 2P
CNP21	*1-565-344-11	PIN, CONNECTOR (PC BOARD) 8P
CNP22	*1-565-347-11	SOCKET, CONNECTOR (PC BOARD) 8P
CNP81	*1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P
CNP82	*1-564-339-00	PIN, CONNECTOR 5P
CNP83	*1-564-338-00	PIN, CONNECTOR 4P
CNP505	*1-564-506-11	(RX410).....PLUG, CONNECTOR 3P
CNP505	*1-564-510-11	(RX55,RX55ES)...PLUG, CONNECTOR 7P
D11	8-719-940-76	DIODE 1SS132
D81	8-719-940-76	DIODE 1SS132
D101	8-719-940-76	DIODE 1SS132
D201	8-719-940-76	DIODE 1SS132
D301	8-719-010-34	DIODE UZ-4.7BSC
D501	8-719-301-38	LED SEL2210S-C
D502	8-719-301-60	LED SEL2910A-C
D503	8-719-301-43	LED SEL2410E-C

Note:

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
D504	8-719-301-60	LED SEL2910A-C
D505	8-719-301-60	LED SEL2910A-C
D506	8-719-200-77	DIODE 10E2N
D507	8-719-302-52	(RX55,RX55ES)...LED SEL1410E
D507	8-719-304-38	(RX410).....DIODE SEL4414E-D
D508	8-719-302-52	(RX55,RX55ES)...LED SEL1410E
D508	8-719-304-38	(RX410).....DIODE SEL4414E-D
D509	8-719-302-52	(RX55,RX55ES)...LED SEL1410E
D509	8-719-304-38	(RX410).....DIODE SEL4414E-D
D510	8-719-304-38	(RX410)...DIODE SEL4414E-D
D511	8-719-304-38	(RX410)...DIODE SEL4414E-D
D512	8-719-304-38	(RX410)...DIODE SEL4414E-D
D513	8-719-304-38	(RX410)...DIODE SEL4414E-D
D514	8-719-304-32	(RX410)...DIODE SEL4214S
D515	8-719-304-32	(RX410)...DIODE SEL4214S
D516	8-719-304-32	(RX410)...DIODE SEL4214S
D517	8-719-304-38	(RX410)...DIODE SEL4414E-D
D518	8-719-304-38	(RX410)...DIODE SEL4414E-D
D519	8-719-304-38	(RX410)...DIODE SEL4414E-D
D520	8-719-304-38	(RX410)...DIODE SEL4414E-D
D521	8-719-304-32	(RX410)...DIODE SEL4214S
D522	8-719-304-32	(RX410)...DIODE SEL4214S
D523	8-719-304-32	(RX410)...DIODE SEL4214S
D524	8-719-940-76	DIODE 1SS132
D525	8-719-940-76	DIODE 1SS132
D526	8-719-940-76	DIODE 1SS132
D527	8-719-940-76	DIODE 1SS132
D528	8-719-940-76	DIODE 1SS132
D529	8-719-940-76	(RX410)...DIODE 1SS132
D530	8-719-940-76	(RX410)...DIODE 1SS132
D531	8-719-940-76	(RX410)...DIODE 1SS132
D532	8-719-940-76	(RX410)...DIODE 1SS132
D533	8-719-940-76	(RX55,RX55ES)...DIODE 1SS132
D534	8-719-940-76	DIODE 1SS132
D535	8-719-940-76	DIODE 1SS132
D701	8-719-940-76	DIODE 1SS132
D702	8-719-940-76	DIODE 1SS132
D703	8-719-200-77	DIODE 10E2N
D704	8-719-200-77	DIODE 10E2N
D705	8-719-200-77	DIODE 10E2N
D706	8-719-200-77	DIODE 10E2N
D707	8-719-940-76	DIODE 1SS132
D708	8-719-200-77	(RX55,RX55ES)...DIODE 10E2N
D709	8-719-000-96	(RX55,RX55ES)...DIODE UZL-7H2
D710	8-719-934-23	(RX55,RX55ES)...DIODE HZS30-3L
D712	8-719-210-77	DIODE 10E2N
D713	1-807-913-21	DIODE 11EQS04
D714	1-807-913-21	DIODE 11EQS04
D715	1-807-913-21	(RX55,RX55ES)...DIODE 11EQS04
FL501	1-519-493-11	(RX55,RX55ES)...INDICATOR TUBE, FLUORESCENT
IC21	8-759-133-90	IC UPC339C
IC81	8-759-111-44	IC UPC4570C-1
IC91	8-759-106-56	IC UPC1297CA
IC301	8-752-018-70	IC CX20187
IC302	8-759-600-02	IC M5218L
IC303	8-759-600-02	IC M5218L

Ref.No.	Part No.	Description
IC304	8-759-945-58	IC RC4558P
IC305	8-752-033-61	IC CXA1198AP
IC306	8-759-240-52	IC TC14052BP
IC501	8-759-633-24	IC M50940-135SP
IC502	8-741-161-00	IC SBX1610-51
IC701	8-759-604-29	IC M5F7805
IC702	8-759-604-86	IC M5F7807
IC703	8-759-604-90	IC M5F7907
J301	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)
J302	1-507-796-71	JACK (MICROPHONE)
J303	1-507-797-21	JACK, LARGE TYPE (HEADPHONES)
L41	1-410-780-11	INDUCTOR 27MMH
L61	1-410-780-11	INDUCTOR 27MMH
LPF101	1-236-475-11	FILTER, LOW PASS
LPF201	1-236-475-11	FILTER, LOW PASS
PM901	1-454-456-11	SOLENOID, PLUNGER
Q11	8-729-173-38	TRANSISTOR 2SA733
Q12	8-719-939-23	PHOTO TRANSISTOR GP2S09-C
Q21	8-729-806-20	TRANSISTOR 2SA1345
Q81	8-729-801-83	TRANSISTOR 2SB1013
Q82	8-729-101-93	(RX410).....TRANSISTOR 2SC945L
Q82	8-729-119-78	(RX55,RX55ES)...TRANSISTOR 2SC2785
Q83	8-729-101-93	(RX410).....TRANSISTOR 2SC945L
Q83	8-729-119-78	(RX55,RX55ES)...TRANSISTOR 2SC2785
Q101	8-729-119-78	(RX55,RX55ES)...TRANSISTOR 2SC2785
Q102	8-729-119-78	(RX410)...TRANSISTOR 2SC2785
Q103	8-729-119-78	TRANSISTOR 2SC2785
Q104	8-729-900-80	TRANSISTOR DTC114ES
Q105	8-729-900-80	TRANSISTOR DTC114ES
Q201	8-729-119-78	(RX55,RX55ES)...TRANSISTOR 2SC2785
Q202	8-729-119-78	TRANSISTOR 2SC2785
Q203	8-729-119-78	TRANSISTOR 2SC2785
Q204	8-729-900-80	TRANSISTOR DTC114ES
Q205	8-729-900-80	TRANSISTOR DTC114ES
Q301	8-729-900-61	TRANSISTOR DTA114ES
Q302	8-729-900-61	TRANSISTOR DTA114ES
Q303	8-729-900-61	TRANSISTOR DTA114ES
Q304	8-729-900-61	TRANSISTOR DTA114ES
Q305	8-729-900-61	TRANSISTOR DTA114ES
Q306	8-729-801-93	TRANSISTOR 2SD1387
Q307	8-729-900-65	TRANSISTOR DTA144ES
Q308	8-729-900-65	TRANSISTOR DTA144ES
Q309	8-729-173-38	TRANSISTOR 2SA733
Q501	8-729-900-61	TRANSISTOR DTA114ES
Q502	8-729-900-61	TRANSISTOR DTA114ES
Q503	8-729-900-61	TRANSISTOR DTA114ES
Q504	8-729-900-61	TRANSISTOR DTA114ES
Q505	8-729-900-61	TRANSISTOR DTA114ES
Q506	8-729-900-63	TRANSISTOR DTA124ES
Q507	8-729-900-61	TRANSISTOR DTA114ES
Q508	8-729-801-93	TRANSISTOR 2SD1387
Q509	8-729-801-83	TRANSISTOR 2SB1013
Q510	8-729-900-80	TRANSISTOR DTC114ES
Q511	8-729-900-80	TRANSISTOR DTC114ES
Q512	8-729-900-80	TRANSISTOR DTC114ES
Q701	8-729-118-01	(RX55,RX55ES)...TRANSISTOR 2SB1116

Ref.No.	Part No.	Description
R11	1-247-834-11	CARBON 1.3K 5% 1/4W
R12	1-249-414-11	CARBON 560 5% 1/4W
R13	1-247-818-11	CARBON 300 5% 1/4W
R14	1-249-408-11	CARBON 180 5% 1/4W
R17	1-249-437-11	CARBON 47K 5% 1/4W
R18	1-249-437-11	CARBON 47K 5% 1/4W
R21	1-249-425-11	CARBON 4.7K 5% 1/4W
R22	1-249-421-11	CARBON 2.2K 5% 1/4W
R23	1-249-421-11	CARBON 2.2K 5% 1/4W
R24	1-249-423-11	CARBON 3.3K 5% 1/4W
R25	1-249-429-11	CARBON 10K 5% 1/4W
R26	1-249-430-11	(RX410).....CARBON 12K 5% 1/4W
R26	1-249-431-11	(RX55,RX55ES)...CARBON 15K 5% 1/4W
R27	1-247-838-00	(RX410).....CARBON 2K 5% 1/4W
R27	1-249-425-11	(RX55,RX55ES)...CARBON 4.7K 5% 1/4W
R28	1-249-419-11	(RX410).....CARBON 1.5K 5% 1/4W
R28	1-249-425-11	(RX55,RX55ES)...CARBON 4.7K 5% 1/4W
R29	1-249-420-11	(RX55,RX55ES)...CARBON 1.8K 5% 1/4W
R41	1-247-881-00	(RX410).....CARBON 120K 5% 1/4W
R41	1-249-435-11	(RX55,RX55ES)...CARBON 33K 5% 1/4W
R42	1-249-404-00	(RX55,RX55ES)...CARBON 82 5% 1/4W
R42	1-249-405-11	(RX410).....CARBON 100 5% 1/4W
R43	1-247-882-11	CARBON 130K 5% 1/4W
R44	1-249-426-11	CARBON 5.6K 5% 1/4W
R45	1-249-428-11	(RX55,RX55ES)...CARBON 8.2K 5% 1/4W
R45	1-249-430-11	(RX410).....CARBON 12K 5% 1/4W
R51	1-249-434-11	(RX410).....CARBON 27K 5% 1/4W
R51	1-249-435-11	(RX55,RX55ES)...CARBON 33K 5% 1/4W
R52	1-249-393-11	CARBON 10 5% 1/4W
R53	1-247-883-00	CARBON 150K 5% 1/4W
R54	1-249-429-11	(RX55,RX55ES)...CARBON 10K 5% 1/4W
R54	1-249-433-11	(RX410).....CARBON 22K 5% 1/4W
R61	1-247-881-00	(RX410).....CARBON 120K 5% 1/4W
R61	1-249-435-11	(RX55,RX55ES)...CARBON 33K 5% 1/4W
R62	1-249-404-00	(RX55,RX55ES)...CARBON 82 5% 1/4W
R62	1-249-405-11	(RX410).....CARBON 100 5% 1/4W
R63	1-247-882-11	CARBON 130K 5% 1/4W
R64	1-249-426-11	CARBON 5.6K 5% 1/4W
R65	1-249-428-11	(RX55,RX55ES)...CARBON 8.2K 5% 1/4W
R65	1-249-430-11	(RX410).....CARBON 12K 5% 1/4W
R71	1-249-434-11	(RX410).....CARBON 27K 5% 1/4W
R71	1-249-435-11	(RX55,RX55ES)...CARBON 33K 5% 1/4W
R72	1-249-393-11	CARBON 10 5% 1/4W
R73	1-247-883-00	CARBON 150K 5% 1/4W
R74	1-249-429-11	(RX55,RX55ES)...CARBON 10K 5% 1/4W
R74	1-249-433-11	(RX410).....CARBON 22K 5% 1/4W
R81	1-249-409-11	CARBON 220 5% 1/4W
R82	1-249-409-11	CARBON 220 5% 1/4W
R84	1-212-849-00	FUSIBLE 4.7 5% 1/4W F
R85	1-249-437-11	CARBON 47K 5% 1/4W
R86	1-249-437-11	CARBON 47K 5% 1/4W
R87	1-249-429-11	CARBON 10K 5% 1/4W

TC-RX55/RX55ES/RX410

Ref.No.	Part No.	Description			
R88	1-249-429-11	CARBON	10K	5%	1/4W
R101	1-249-417-11	CARBON	1K	5%	1/4W
R102	1-249-435-11	CARBON	33K	5%	1/4W
R103	1-249-429-11	CARBON	10K	5%	1/4W
R104	1-249-411-11	CARBON	330	5%	1/4W
R105	1-249-434-11	CARBON	27K	5%	1/4W
R106	1-249-437-11	CARBON	47K	5%	1/4W
R107	1-249-429-11	(RX55,RX55ES)...CARBON	10K	5%	1/4W
R108	1-249-417-11	CARBON	1K	5%	1/4W
R109	1-249-441-11	(RX55,RX55ES)...CARBON	100K	5%	1/4W
R110	1-249-423-11	CARBON	3.3K	5%	1/4W
R111	1-249-428-11	CARBON	8.2K	5%	1/4W
R112	1-247-840-00	CARBON	2.4K	5%	1/4W
R113	1-247-846-11	CARBON	4.3K	5%	1/4W
R114	1-247-822-11	CARBON	430	5%	1/4W
R115	1-249-427-11	CARBON	6.8K	5%	1/4W
R116	1-249-415-11	CARBON	680	5%	1/4W
R117	1-249-426-11	(RX410).....CARBON	5.6K	5%	1/4W
R117	1-249-427-11	(RX55,RX55ES)...CARBON	6.8K	5%	1/4W
R118	1-249-421-11	(RX410).....CARBON	2.2K	5%	1/4W
R118	1-249-425-11	(RX55,RX55ES)...CARBON	4.7K	5%	1/4W
R119	1-249-425-11	(RX410).....CARBON	4.7K	5%	1/4W
R119	1-249-429-11	(RX55,RX55ES)...CARBON	10K	5%	1/4W
R120	1-249-433-11	CARBON	22K	5%	1/4W
R121	1-249-421-11	CARBON	2.2K	5%	1/4W
R122	1-249-421-11	CARBON	2.2K	5%	1/4W
R123	1-249-421-11	CARBON	2.2K	5%	1/4W
R124	1-249-429-11	CARBON	10K	5%	1/4W
R125	1-247-840-00	CARBON	2.4K	5%	1/4W
R126	1-249-409-11	CARBON	220	5%	1/4W
R127	1-249-434-11	CARBON	27K	5%	1/4W
R128	1-249-434-11	CARBON	27K	5%	1/4W
R129	1-247-862-11	CARBON	20K	5%	1/4W
R130	1-249-397-11	CARBON	22	5%	1/4W
R131	1-249-424-11	CARBON	3.9K	5%	1/4W
R132	1-247-887-00	CARBON	220K	5%	1/4W
R133	1-249-424-11	CARBON	3.9K	5%	1/4W
R134	1-249-412-11	CARBON	390	5%	1/4W
R135	1-247-840-00	CARBON	2.4K	5%	1/4W
R136	1-249-441-11	CARBON	100K	5%	1/4W
R137	1-249-425-11	(RX55,RX55ES)...CARBON	4.7K	5%	1/4W
R137	1-249-429-11	(RX410).....CARBON	10K	5%	1/4W
R138	1-249-431-11	CARBON	15K	5%	1/4W
R201	1-249-417-11	CARBON	1K	5%	1/4W
R202	1-249-435-11	CARBON	33K	5%	1/4W
R203	1-249-429-11	CARBON	10K	5%	1/4W
R204	1-249-411-11	CARBON	330	5%	1/4W
R205	1-249-434-11	CARBON	27K	5%	1/4W
R206	1-249-437-11	CARBON	47K	5%	1/4W
R207	1-249-429-11	(RX55,RX55ES)...CARBON	10K	5%	1/4W
R208	1-249-417-11	CARBON	1K	5%	1/4W
R209	1-249-441-11	(RX55,RX55ES)...CARBON	100K	5%	1/4W
R210	1-249-423-11	CARBON	3.3K	5%	1/4W
R211	1-249-428-11	CARBON	8.2K	5%	1/4W
R212	1-247-840-00	CARBON	2.4K	5%	1/4W
R213	1-247-846-11	CARBON	4.3K	5%	1/4W
R214	1-247-822-11	CARBON	430	5%	1/4W

Ref.No.	Part No.	Description			
R215	1-249-427-11	CARBON	6.8K	5%	1/4W
R216	1-249-415-11	CARBON	680	5%	1/4W
R217	1-249-426-11	(RX410).....CARBON	5.6K	5%	1/4W
R217	1-249-427-11	(RX55,RX55ES)...CARBON	6.8K	5%	1/4W
R218	1-249-421-11	(RX410).....CARBON	2.2K	5%	1/4W
R218	1-249-425-11	(RX55,RX55ES)...CARBON	4.7K	5%	1/4W
R219	1-249-425-11	(RX410).....CARBON	4.7K	5%	1/4W
R219	1-249-429-11	(RX55,RX55ES)...CARBON	10K	5%	1/4W
R220	1-249-433-11	CARBON	22K	5%	1/4W
R221	1-249-421-11	CARBON	2.2K	5%	1/4W
R222	1-249-421-11	CARBON	2.2K	5%	1/4W
R223	1-249-421-11	CARBON	2.2K	5%	1/4W
R224	1-249-429-11	CARBON	10K	5%	1/4W
R225	1-247-840-00	CARBON	2.4K	5%	1/4W
R226	1-249-409-11	CARBON	220	5%	1/4W
R227	1-249-434-11	CARBON	27K	5%	1/4W
R228	1-249-434-11	CARBON	27K	5%	1/4W
R229	1-247-862-11	CARBON	20K	5%	1/4W
R230	1-249-397-11	CARBON	22	5%	1/4W
R231	1-249-424-11	CARBON	3.9K	5%	1/4W
R232	1-247-887-00	CARBON	220K	5%	1/4W
R233	1-249-424-11	CARBON	3.9K	5%	1/4W
R234	1-249-412-11	CARBON	390	5%	1/4W
R235	1-247-840-00	CARBON	2.4K	5%	1/4W
R236	1-249-441-11	CARBON	100K	5%	1/4W
R237	1-249-425-11	(RX55,RX55ES)...CARBON	4.7K	5%	1/4W
R237	1-249-429-11	(RX410).....CARBON	10K	5%	1/4W
R238	1-249-431-11	CARBON	15K	5%	1/4W
R301	1-249-413-11	CARBON	470	5%	1/4W
R302	1-249-413-11	CARBON	470	5%	1/4W
R303	1-249-435-11	CARBON	33K	5%	1/4W
R304	1-215-469-00	METAL	100K	1%	1/6W
R305	1-249-429-11	(RX55,RX55ES)...CARBON	10K	5%	1/4W
R306	1-249-435-11	CARBON	33K	5%	1/4W
R307	1-249-429-11	CARBON	10K	5%	1/4W
R308	1-247-864-11	CARBON	24K	5%	1/4W
R309	1-247-881-00	(RX55,RX55ES)...CARBON	120K	5%	1/4W
R309	1-249-438-11	(RX410).....CARBON	56K	5%	1/4W
R310	1-249-437-11	(RX55,RX55ES)...CARBON	47K	5%	1/4W
R310	1-249-440-11	(RX410).....CARBON	82K	5%	1/4W
R311	1-247-882-11	(RX410).....CARBON	130K	5%	1/4W
R311	1-247-883-00	(RX55,RX55ES)...CARBON	150K	5%	1/4W
R312	1-249-438-11	(RX410).....CARBON	56K	5%	1/4W
R312	1-249-440-11	(RX55,RX55ES)...CARBON	82K	5%	1/4W
R313	1-249-435-11	(RX410).....CARBON	33K	5%	1/4W
R313	1-249-436-11	(RX55,RX55ES)...CARBON	39K	5%	1/4W
R314	1-247-870-11	(RX410).....CARBON	43K	5%	1/4W
R314	1-249-435-11	(RX55,RX55ES)...CARBON	33K	5%	1/4W
R315	1-247-883-00	(RX410).....CARBON	150K	5%	1/4W
R315	1-247-891-00	(RX55,RX55ES)...CARBON	330K	5%	1/4W
R316	1-247-878-00	(RX410).....CARBON	91K	5%	1/4W
R316	1-249-438-11	(RX55,RX55ES)...CARBON	56K	5%	1/4W
R317	1-247-881-00	CARBON	120K	5%	1/4W

Ref.No.	Part No.	Description
R318	1-247-874-11	(RX410).....CARBON 62K 5% 1/4W
R318	1-249-441-11	(RX55,RX55ES)...CARBON 100K 5% 1/4W
R319	1-249-437-11	CARBON 47K 5% 1/4W
R320	1-247-874-11	(RX55,RX55ES)...CARBON 62K 5% 1/4W
R320	1-249-440-11	(RX410).....CARBON 82K 5% 1/4W
R321	1-247-887-00	(RX410).....CARBON 220K 5% 1/4W
R321	1-249-435-11	(RX55,RX55ES)...CARBON 33K 5% 1/4W
R322	1-247-881-00	(RX410).....CARBON 120K 5% 1/4W
R322	1-249-441-11	(RX55,RX55ES)...CARBON 100K 5% 1/4W
R323	1-249-438-11	(RX55,RX55ES)...CARBON 56K 5% 1/4W
R323	1-249-440-11	(RX410).....CARBON 82K 5% 1/4W
R324	1-249-434-11	CARBON 27K 5% 1/4W
R325	1-247-872-11	(RX55,RX55ES)...CARBON 51K 5% 1/4W
R325	1-249-438-11	(RX410).....CARBON 56K 5% 1/4W
R326	1-249-429-11	CARBON 10K 5% 1/4W
R327	1-249-437-11	CARBON 47K 5% 1/4W
R328	1-249-417-11	CARBON 1K 5% 1/4W
R329	1-249-413-11	CARBON 470 5% 1/4W
R330	1-249-417-11	CARBON 1K 5% 1/4W
R331	1-249-425-11	CARBON 4.7K 5% 1/4W
R332	1-249-429-11	CARBON 10K 5% 1/4W
R333	1-249-419-11	CARBON 1.5K 5% 1/4W
R334	1-249-425-11	CARBON 4.7K 5% 1/4W
R335	1-249-437-11	CARBON 47K 5% 1/4W
R336	1-249-428-11	CARBON 8.2K 5% 1/4W
R337	1-249-423-11	CARBON 3.3K 5% 1/4W
R338	1-247-840-00	CARBON 2.4K 5% 1/4W
R339	1-247-876-11	(RX410).....CARBON 75K 5% 1/4W
R339	1-249-439-11	(RX55,RX55ES)...CARBON 68K 5% 1/4W
R340	1-249-417-11	CARBON 1K 5% 1/4W
R341	1-249-413-11	CARBON 470 5% 1/4W
R501	1-249-409-11	CARBON 220 5% 1/4W
R502	1-249-412-11	CARBON 390 5% 1/4W
R503	1-249-420-11	CARBON 1.8K 5% 1/4W
R504	1-249-422-11	CARBON 2.7K 5% 1/4W
R505	1-249-428-11	CARBON 8.2K 5% 1/4W
R506	1-249-409-11	CARBON 220 5% 1/4W
R507	1-249-412-11	CARBON 390 5% 1/4W
R508	1-249-415-11	CARBON 680 5% 1/4W
R509	1-249-418-11	CARBON 1.2K 5% 1/4W
R510	1-249-422-11	CARBON 2.7K 5% 1/4W
R511	1-249-428-11	(RX55,RX55ES)...CARBON 8.2K 5% 1/4W
R512	1-249-417-11	CARBON 1K 5% 1/4W
R514	1-249-436-11	CARBON 39K 5% 1/4W
R513	1-249-425-11	CARBON(RX55,RX55ES)...4.7K 5% 1/4W
R515	1-249-436-11	CARBON 39K 5% 1/4W
R516	1-247-895-00	CARBON 470K 5% 1/4W
R517	1-247-895-00	CARBON 470K 5% 1/4W
R518	1-249-437-11	CARBON 47K 5% 1/4W
R519	1-249-412-11	CARBON 390 5% 1/4W
R520	1-249-410-11	CARBON 270 5% 1/4W
R521	1-249-409-11	CARBON 220 5% 1/4W
R522	1-249-411-11	CARBON 330 5% 1/4W
R523	1-249-411-11	CARBON 330 5% 1/4W
R524	1-249-437-11	CARBON 47K 5% 1/4W
R525	1-247-903-00	CARBON 1M 5% 1/4W
R526	1-249-417-11	CARBON 1K 5% 1/4W



Ref.No.	Part No.	Description
R527	1-249-433-11	CARBON 22K 5% 1/4W
R528	1-247-727-11	CARBON 10 5% 1/2W
R529	1-249-420-11	CARBON 1.8K 5% 1/4W
R530	1-249-433-11	CARBON 22K 5% 1/4W
R531	1-249-415-11	(RX410)...CARBON 680 5% 1/4W
R532	1-249-442-11	(RX410)...CARBON 510 5% 1/4W
R533	1-249-411-11	(RX410)...CARBON 330 5% 1/4W
R534	1-247-814-11	(RX410)...CARBON 200 5% 1/4W
R535	1-249-415-11	(RX410)...CARBON 680 5% 1/4W
R536	1-249-442-11	(RX410)...CARBON 510 5% 1/4W
R537	1-249-411-11	(RX410)...CARBON 330 5% 1/4W
R538	1-247-832-11	(RX410)...CARBON 1.1K 5% 1/4W
R539	1-247-830-11	(RX410)...CARBON 910 5% 1/4W
R540	1-247-826-00	(RX410)...CARBON 620 5% 1/4W
R541	1-247-832-11	(RX410)...CARBON 1.1K 5% 1/4W
R542	1-247-830-11	(RX410)...CARBON 910 5% 1/4W
R543	1-247-826-00	(RX410)...CARBON 620 5% 1/4W
R544	1-249-409-11	CARBON 220 5% 1/4W
R545	1-249-409-11	CARBON 220 5% 1/4W
R546	1-249-409-11	CARBON 220 5% 1/4W
R547	1-249-421-11	CARBON 2.2K 5% 1/4W
R548	1-249-421-11	CARBON 2.2K 5% 1/4W
R701	1-249-403-11	CARBON 68 5% 1/4W
R702	1-249-403-11	CARBON 68 5% 1/4W
R703	1-249-417-11	CARBON 1K 5% 1/4W
R704	1-249-441-11	CARBON 100K 5% 1/4W
R705	1-249-433-11	(RX55,RX55ES)...CARBON 62K 5% 1/4W
RV41	1-228-990-00	RES, ADJ, CARBON 1K
RV42	1-230-497-11	RES, ADJ, CARBON 22K
RV61	1-228-990-00	RES, ADJ, CARBON 1K
RV62	1-230-497-11	RES, ADJ, CARBON 22K
RV101	1-228-994-00	RES, ADJ, CARBON 10K
RV201	1-228-994-00	RES, ADJ, CARBON 10K
RV301	1-238-097-11	RES, VAR, CARBON 20K/20K(REC LEVEL)
RY81	1-515-614-11	RELAY
S11	1-571-281-21	SWITCH, LEAF (HALF DET)
S12	1-571-281-21	SWITCH, LEAF (REC PROOF (A))
S13	1-571-281-21	SWITCH, LEAF (REC PROOF (B))
S14	1-571-281-21	SWITCH, LEAF (CrO2)
S15	1-571-281-21	SWITCH, LEAF (METAL)
S501	1-554-303-21	SWITCH, KEY BOARD (■)
S502	1-554-303-21	SWITCH, KEY BOARD ()
S503	1-554-303-21	SWITCH, KEY BOARD (▶)
S504	1-554-303-21	SWITCH, KEY BOARD (◀)
S505	1-554-303-21	SWITCH, KEY BOARD (●)
S506	1-554-303-21	SWITCH, KEY BOARD (◀◀)
S507	1-554-303-21	SWITCH, KEY BOARD (▶▶)
S508	1-554-303-21	SWITCH, KEY BOARD (○)
S509	1-554-303-21	(RX55,RX55ES)...SWITCH, KEY BOARD (COUNTER RESET)
S510	1-554-303-21	(RX55,RX55ES)...SWITCH, KEY BOARD (COUNTER MEMORY)
S511	1-571-305-11	SWITCH, PUSH (1 KEY)(DIRECTION MODE)
S512	1-571-305-11	(RX55,RX55ES)...SWITCH, PUSH (1 KEY) (MPX FILTER)
S513	1-571-305-11	SWITCH, PUSH (1 KEY)(DOLBY B/C)


TC-RX55/RX55ES/RX410

Ref.No.	Part No.	Description
S514	1-571-305-11	SWITCH, PUSH (1 KEY)(DOLBY NR)
S515	1-554-423-00	(RX55,RX55ES)...SWITCH, SLIDE (TIMER)
S901	1-553-318-71	SWITCH, PUSH (AC POWER)(1 KEY)
S902	1-571-028-11	(RX55,RX55ES)...SWITCH, LEAF (DIRECTION)
SPK101	1-235-186-00	ENCAPSULATED COMPONENT
SPK201	1-235-186-00	ENCAPSULATED COMPONENT
T51	1-433-335-11	TRANSFORMER, BIAS OSCILLATION
T71	1-433-335-11	TRANSFORMER, BIAS OSCILLATION
T81	1-433-336-11	TRANSFORMER, BIAS OSCILLATION
T901	1-449-596-11	(RX55ES,RX55:Canadian/E2) ...TRANSFORMER, POWER
T901	1-449-597-11	(RX55: AEP/UK/E3)...TRANSFORMER, POWER
T901	1-449-598-11	(RX410).....TRANSFORMER, POWER
TP83	*1-564-338-00	PIN, CONNECTOR 4P
TP91	*1-564-508-11	PLUG, CONNECTOR 5P

ACCESSORY & PACKING MATERIAL

1-559-533-11	CORD, CONNECTION
*3-332-556-01	(RX55ES)...INDIVIDUAL CARTON
*3-332-556-51	(RX55).....INDIVIDUAL CARTON
*3-332-556-71	(RX410)....INDIVIDUAL CARTON
*3-349-005-01	CUSHION
*3-701-630-00	BAG, POLYETHYLENE
3-703-450-01	(US)...INSTRUCTION
3-750-181-21	(RX410).....MANUAL, INSTRUCTION (English)
3-750-181-31	(RX410:Canadian)...MANUAL, INSTRUCTION (French)
3-750-118-11	(RX55:Canadian/AE1/AE2/E2/E3)MANUAL, INSTRUCTION(English,French,Spanish)
3-750-118-21	(RX55ES).....MANUAL, INSTRUCTION(English)
3-750-118-41	(RX55: AE1/AE2/E3).....MANUAL, INSTRUCTION(German,Dutch,Swedish,Italian)
3-750-118-51	(RX55:West Germany)...MANUAL, INSTRUCTION (German)
3-750-118-61	(RX55:UK).....MANUAL, INSTRUCTION (English)

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.